

aaattcttct cttaacaatt aacctagagc acaaaattca ttctaggtac tactacatca 120
 attaattgatt agtaaaatgg caaagaggaa aacttgtaca gagatgagga aaatgcacta 180
 acctgtaaca tttctttcat caccaccctt gttgtatgca agtctttcaa agaaatgaca 240
 caatagggga tgatacttaa taatactaaa aagagtcctc ttgcactctg tttgatgatt 300
 gagccaatat gattcagaat gcttatcttt aatcttcctt gccatggctg caaaattcac 360
 cttntaaacc agctggattt agaaatgt 388

<210> 21470
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21470

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 gccgatagac actgaatctt tgacaagggg tgcagatgac catatttggt tccgtgcgtc 120
 aatgggctcg cttaccttga gttagtggag gggagactaa atagtctcag tcgatagaca 180
 ttgagttttc gacaaagggg gcaaatgacc atattgggtc ctacgcgtca tcggacttgc 240
 tgtctctgga tgaggaaggg agactaaagt agtctcggtc gatagacatc gagtcttcga 300
 caaagggagc agatgaccat gttggttgct gcatgtcatc ggacttgctg tctctatatg 360
 gcgaagggag actaaagtag tcttggtcga tagacgtcgc gtcttcaaca 410

<210> 21471
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 21471

tctgcttatc cttatggttt gcctccggac ttcaccccc gtgccactcc agaagattta 60
 agccaagccc ctacttttga ggggcaactc ccaccttatg aagactatcc cggacaagac 120
 gatggggaag gagataccca tcttggtccc ctgctccacc tcaaagatcc atccccgcat 180
 gaactacccc agccgaacat agtccgcat atcccgccct caccacgcc cgtaaaagaa 240
 tctgttcctt tcgcggaaga tacgggaaag attgatgcgc ttgaagagag gttgagggca 300

gtcgagggccc tgcacaatta cccattctcg gatttggcag atctatgtct tgtgcccac 360
atcgtcatcc ctcccaagtt caaagtacca gactttgata ag 402

<210> 21472
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21472

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ttttattagc attttgtag ctgaaaaaaaa ggcccaaact tgtgttaaag tggctgtcaa 120
ttctcttggg atttgcacaa cctatgggct tgatttaaatt taaagaaatt aagggttaatt 180
aagggtgaaaa ctctaggatt gtggctgcct cttggctgac caaggagttg cacaattttc 240
catatgttta tgtgtcttaa ttctaatttt aattacgtat aatgacacca tcaattgttg 300
ttatcaattc tagttttact tatgtttaat gacaccatca attgttggtta ttgggtgatca 360
tttcacttgt gtaaccaact tgatgtcatt cctattttata ggctgcacat tatctaataa 420
aaaaaat 427

<210> 21473
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21473

tgcactagaa gctaanaacc gattctctgc gcgtacatgt atcttattca ggtgctttgc 60
gtttacaaat taagcttata tatgtgtctg taataatgca atttctatta taatgaggct 120
gtaactgatt gtctctgttt tcccatgtaa atctagtttt gtctaataaaa gggaagagaa 180
ggatatatga tgctggcttg tttgggtctga tcggagagga tgatgatgag gtgggtgttt 240
ttccctagtt aagaattgag aaacgttgct ctcttatttt ttttctgaa tttctcctgt 300
tgттаattat taattaatta tcatgagatt tgggtggctga atttagcaac tatgaaaatt 360
acagggattt cttgatttca tgcaagaaat ggccttgatg atgcagaaaag tgagacccaa 420
ggtattgcat atc 433

<210> 21474
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21474

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 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaagt 120
 attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aactttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt caaagaanaa 300
 catgcaaagt cgtacatgca cacaaaattg acccanaata ttaaactaaa aatccgacga 360
 aactaacaac attaacanat taacacaact aac 393

<210> 21475
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21475

tctatcaaac tcagcttgtc ataagactct tctcttgatg aagggaaaat tatatttcca 60
 tgtgctacat aagaaaggac gatagttttt cgagttgaaa ttgtgaaact tcacctttac 120
 aaagatggat tcatgcctaa ttacatgggt tggattgatc atggtgaaaa gatgccacat 180
 gttgataatc atcacatggg tgttttaagt agtggtgtag atgtggccta aggtgaacca 240
 tttatgttaa tgcaggagat gatgtttgat gctcttaggc agcccaaaat atttgaagca 300
 ccaaaatcag ataacatgga agagcctata aatgaagaag ctcaaggatt ttataatatg 360
 ttggtagagg caaataacgt cattgtttga agggcatcag tctctaagtt atcaattntc 420
 acttatagct tgcaagtcca attggaatgt tcctaagta 459

<210> 21476
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 21476

agcttgtagt tgggtttatag atgattgata catgctttgg gacttgtagg attcaatttg 60
ggcaaaattg gatgaaggta agagtgggtt tcgaaatctg cactttatgc agaattttgc 120
tggtgaaatg tgcagcagaa ttttgtatat gtgccgaaaa atgcttggtg atggctgggt 180
gtggaaagcg tagtacatat ggggttctgg acatttctta gcagatccca acgggtcaaaa 240
tgtagactta tgtactagag acttccagta aaatttttga gtcgatccaa cgggttaacga 300
actggaacga agagaatgtt actgtgggtt ttgaatgtga aaagctgtga tattgggttt 360
gtgtttgggc agagttttct 380

<210> 21477

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21477

gacacttcca atactcaagc ttgagatgag gaagtgttga aggggtgaaac ttctgtctnt 60
ttttgttgac ttcagagtgg tacctggaga tatgtcggg gggtcaggag accttgggga 120
cgtcagggtg ggtgctattg cccaaaacca agcttgacca atcccgaccc aaccggggca 180
tagtcggtca gtgagaacct gtgatgtacc taagcaggcg agtcctggc agtcaacaga 240
taaaaggaaa acaagaccac aaagcaagga ggcttgtggt ggctggccag ctatgaattt 300
tgtgtaatat gtggattgtg gcctctggta atcgattacc aagggtgggt aatcgattac 360
aaggcttaaa attgaggaca ggaggctaag atgggtctctg gtaatcgatt accaaggggt 420
ggaatcgatt accaggcttg aaaacgaagt caggaaactt agggag 466

<210> 21478

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21478

agctttcttg aaacatatat gtttggctt gttgctgaca gatacaacaa actaccaatt 60
atacttctat aaacagaatc atttgctaaa tcaataccat cattttattga taacttttca 120

ttcacaacaa ttggagtgc aacaggcttg cattgctcca tgcgaaactt cttcaatata 180
 tccaaagcat atttcttttg tgaaatgaag atcccatcat tagactgaga aatctccata 240
 ctaagaaaat acttcatttc acccaagtca gtcatttcaa attctttttc catgtccttc 300
 ttaaattggt ttaaggaatc agattcattt cctataacca acaaatacgc aacatacaag 360
 gaaacaatga gctgcatttc attnttncac ttcttcacat ac 402

<210> 21479
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21479

tcaagctntg tgtgtggaac attgtaatac catatctgca ggagattttc ttgctatttt 60
 atgaacgggt aaacggtcag acagagaacg ataattgaca agatttgagt cggtttctac 120
 cttctctctg cttttaggcc actcaattgg gcgtttatat ccttcaggaa caggaacaag 180
 gcaggtagga ggttcttcag gacagtgtct ttctcgatgt tcatagtgtt tagtactccg 240
 gagactccta atagctttcc agttgtcaag gcatgggata aaatcaggac cagcagtgac 300
 attgcaaagc ttccacttgt atccagttgc ctgcttgagg gattcttgag actccttttc 360
 attcttagac tctgctgcct gagttgacca agaccagtt tctgtagtac tttcttcgtg 420
 aagctcagac tgagccccag aaggatatac c 451

<210> 21480
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21480

agcttctagt cgtccataga cctcctctgt ggtacggctt agcaaagctt gcatctgtgc 60
 attcatcgca tccactaaca gacgttgagc gccgtccaac tgatgggtact cgtcaccacc 120
 accacgtgct ccagccataa ttcaacagga aaaaaaaaaat gtgcaataaa aattattaag 180
 gtttcaggac ctcacaacac tctactcagc tctcttagat ggtagtacac tcgtgtttta 240
 tgctctcaat aggcttttgt gtaatgtatt cctctctgac ttttaccact cgtgtttcct 300

cttaagttcc tggatggacc aaattagaca cacaaggtaa tataaaataa aaggaaagac 360
aatataatga tcacaaacag aattgatntg ggataaaca ctgg 404

<210> 21481
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21481

catgagagag tcaaagatca aattgagaga naaaataaat gctatgctat acaagccaac 60
aaagggagaa agaaggttgt cttcgaaccc agagattggg tttgggtgca catgagaaaa 120
gaaaggtttc gaaacaaagg aaatcaaagc ttcaaccaag gggagatgga ccatttcaag 180
tgcttgaaag aatcaatgac aatgcttaca aagttgagct gcccggtgag tataatgtta 240
gttcaacctt caatgtcttt gacttatctc tttttgatgc agatggagaa tccgatttga 300
ggacgaatca ttctcaagag ggagagaatg atgaggacat gaccaagagc aagggcaagg 360
atccacttgg aggacctatg acaaggggta gagcaaggaa agccaaggaa gctcttcaac 420
aagtgttgcc catattattt gaata 445

<210> 21482
<211> 403
<212> DNA
<213> Glycine max

<400> 21482

agctttcttct tggcttctct ctccttagcc acccgagct cagactttga ctctttcagt 60
cgagcctcaa ggtccaccac caatttgga agctcatcct gctttgccat aatgccttcc 120
acttggtctat ccaagtcctt ttgctcctac tgcaagtcct tacaacattc gaacaactta 180
tcaccatcca acctgggtgcg caacaacttg gccaaaatgc ccctaacctt ggaagacagt 240
tggtgggttg acttcacaac ttcaatgaag gcaatgggtg ccctagctac cttatggcgc 300
tcttgtctcc aaaccatgcg agcagtagcc atccatttgg tgacctttgc ctccaaggat 360
gccaccttgc gtagaagcct ctggtgtcgc tgtgcattct cct 403

<210> 21483
<211> 397

<212> DNA
 <213> Glycine max
 <400> 21483

tggaccttga acaagcaatc aactcctctt tcatatccat gctatgtgct cgcgactggt 60
 ccctttcttc ccttcgcaac ttgagttcat tagtgctacc ccatagagct ccgcgaaatt 120
 ggttcgggcc atactcttcc ttgcgagccc tcttgggtctc ttgttcaagg gctcttgagg 180
 taattgcatt ctcttcccggt aaccgggcgc actccttccg aacgtgtgta gcagccaact 240
 tgaacttctc cttggcgagt tttgcctttc ctaactcgct tttgagagct tggacttctt 300
 cgctcctctc cgggtgcttca aaattctctt cgctgacgac ttttgacttt gacttggttag 360
 aacctcttgt cggattgatt tgatcccatg cttacta 397

<210> 21484
 <211> 401
 <212> DNA
 <213> Glycine max
 <400> 21484

cgctgcaagc ttctatagaa ggctcggtcc taatttctct acaattgcat cacctctcaa 60
 tgagctgggtg aaaaagaatg tggcatttac ctgtgggtgaa aaacaagagc aagcctttgc 120
 tttgctcaaa gaaaagctta ctaaggcacc tggtctagct ctctctgact tttctaaac 180
 ttttgagcta gaatgtgatg cctctggagt gggagttgga gctgtattgt acaagggtggg 240
 caccctattg cttattttac tgaaaaactt catagtgcc aaccttaacta cccacctat 300
 gataaagagc tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc 360
 aaggaatttg tcattcatag tgatcatcaa tcacttaagt a 401

<210> 21485
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21485

cctgactcac catanacctt gaccatttg agaatgtcaa tccttacct ctgaagcaaa 60
 aaaagaagag aaggaaaatt tccaatcaaa ggaaaaaaga gaaggacaat ttccaatcat 120

agagaaagca aaaaaaagag agaaggaaaa tttccaatca aaggaaaaaa gagaggaaag 180
gaaattgccca atcaaagagt gggagaaaga aaaaagaaaa gaaagaaaag tcccaaccaa 240
agaatgggag aaagtaaaaa ggaaggaaag aaagttcctc atcaaagaaa ctagaagaaa 300
tgtgcagaaa ggtctttttg accagacaat atctgaacaa tacagaattg tcaccaaattg 360
aacaaaagaa agaanaggag accatgacct atagtggctt tctccctttg attaccaacc 420
aatatcctg 429

<210> 21486
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21486

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tagttctttt tcaacttata aaactcatta ttagcatgga cacatttttt ttttgcaaaa 120
aaagcttggtg ttttaagcatt tccttggact cttcttttga atcttcaaga gttgtgggta 180
aggatttcat cctttcttct gaatcttaaa aatccttaag aagagtctct cgtccactgg 240
atacctttta atccgtaat gccttgacct actcaciaac aaagggtgtct tgtacatcac 300
ctggggaagt ggttctagga caaatcaac taaaagagtt cgataagttt tcttaagatc 360
ctgatngctc ttttcaagat gttgaaaa 388

<210> 21487
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21487

tctcaaggaa gctacctagt ctataaatag atgcatgtgt tacacttggt gtaactttga 60
tgaatgagag tcttgtgaga cacaactcaa agttcaactt ctctcccttt ttcttcttc 120
aatttcgtgc tccccctccc tctttctctc cctctttctt ttctccatt gaagcatcct 180
ctccaagctt cttatccaag gctcatcttg gtgggtgaagc tccttcttcc gtggcttatt 240
ccttaatgga tggcgctcc tctcacctcc tttcctttgt cttccgctgc atcttcatcg 300

tggaatatca ccattaaagg accccattga agctcanaga tccagcctcc atagaagtcc 360
 cacaagcaag cttccatcaa gtggaatca gagcacaaga gcttcaagta ggtgcacctt 420
 anaccttca 429

<210> 21488
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21488

tttgcaagct tgttaaaata ggttctaaga gaatctcaag tggaatttag cataacttcta 60
 tgaaacaatc atgagaatag aataacaagg gacactttga cattcctaaa aacaaaattt 120
 aacaggagtt ctctcttttt gagggaaaga gcctatttta tttcaatatg atagatatata 180
 ggcaatttat tttgagttgt gtcactagaa gcaagcacat acctaattga ataaagatct 240
 acttctactc gaagcacatg tagaaatgaa ccatcaagag accatgctaa tcttctaaat 300
 tctanagaaa gatggcacca tctcattatg gaag 334

<210> 21489
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21489

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 accgcttttg aaaacttctg gaagcccaaa tgggccttgt gctattncat cccccctttt 120
 tactaaatac acccccttac ctttnttgct gattcttttt tctaacgtta tggaaactta 180
 cgaattatgt aacgatactt gttttccttt cgtaatgtta caaaacctta cggattacgt 240
 aatcatcctt tttttgcctt ccggaatgtt acggaacttt acggattgtg cactaacact 300
 tccttttaat ttccggcatg tcacggaact tcacggattg tgctacaatg ctttcttttg 360
 atttccggca tgtctcgga cttcacgaat tgcctaacga tgggt 405

<210> 21490
 <211> 378
 <212> DNA

<213> Glycine max

<400> 21490

agcttggtgt tcttcattgc gctaaagatc gtgacaagta cgtttcattt cgtctacctg 60
tgctcgtceta ttgaatagct aggtttgttt ctggaacctt tgggtaacct aaggaccttt 120
tttggtttct ggtgcaagga ttggggaact catggtgacc tgagacctat tgccgctgcc 180
attgaatagc tgagtctcgc tgccattgtc ggtgttgagt ttgaggtaag cttcatgtct 240
tcattgaaac tttgtgcttc cgcgtacgtg ctctttgtgc tcacttctct ttgaagcatg 300
tgtatgttcc catcgtaatc tgttcttatg aaaactagct gggttatagat tgtaattagc 360
ttgtcattag tactacta 378

<210> 21491

<211> 409

<212> DNA

<213> Glycine max

<400> 21491

tgattgacgc gggatggcta acattccatt tgatggtttt tatgtgaaga caaatccgct 60
cgccaatcat gggggaccgg tggtaaatgc aatagaggca tgcgggctgt aaaggcctaa 120
gcaaatgaag gacggggtaa cctcaagaag gtttatcttt gaagcattga aagaggcggg 180
catcgtttcc tttgatgggc acaaagggga ctctgtttg atgcatctgg gtgcatcaca 240
tgacatggag acatgttcaa tggcagagga gctattacag caaatgatgg accaaggccg 300
atttgagatc agtaaaggga acaagggaga acaacacatg tacatacagt tggcgaacaa 360
agaaagcccc gctagaccta agcctttggt gatacacttc actagggat 409

<210> 21492

<211> 327

<212> DNA

<213> Glycine max

<400> 21492

tctagctttt ataaatatac ttggcctgcg ttgaattgtc tttgggcttg gcgaccatga 60
tcaacaaagt actttcggca cctactatat gttgacttga ccaacgttga tatcggaatg 120
ctgcgacaat ctttcaacac cttattcaca cattctgata ggttggatgt catctgacca 180

tatcttcgta cacatgtatc gtaagccatg ctccatTTTT cctttgaaat gcgatcaatc 240
catcttgcta tggctggagt cagttgacaa aatgtttcta aggtatgatc aaacacatgc 300
attgcaggag tgtacgctgc atcaaat 327

<210> 21493
<211> 425
<212> DNA
<213> Glycine max

<400> 21493

tatgctgcac atattaacag tagacctcct aacctcagta gcttaatcaa ccacagcgga 60
gcaattatga cctttccagc aacagatata accctggatg gaggaatcac cctaccctca 120
gatggtccag ccctcagcaa caacaacagc agcctgctcc ttccttccaa aatgctgctg 180
gccaagcag accatacatt cctccaccaa tccaacaaca gcaacaaccc cagaaacagc 240
caacagttga ggccccctcca caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300
agaacatgca gtttcagcaa gagactagag cctccattca gagcttaacc aatcagatgg 360
gacaattagc tactcaattg aatcaacaac agtcccagaa ttctgactag ctggcctctc 420
aagct 425

<210> 21494
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21494

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aattaaatat tatttaagat gttactttta gaataattat tataaaattt aataatttcc 120
aatcatatga taactcgtaa tttaattatt ataaattaca ataattttca attatatgac 180
aactcattat tgaataatta cattaaaaat atttatgttg tcaatatatt taattaaatt 240
taaaataaaa ataaaaaata gatattgaac actaaaatga ttattagtgt atttggatnt 300
ttttttcttt ttttggacgc ttggatcttc gttatttcat agtgcacgta tgtcanaatc 360
cgaaaaagac gtaaaagtaa ataatat 387

<210> 21495
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21495

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 agtggccaag gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagtga 120
 gatgtccaga ttgcaactat tggctacaaa attcgaaaat ctgaagatga aggaggaaga 180
 gtgtattcat gacttccaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240
 agaaaggatg acagacgaaa agctggtgag aaagatcctc agatctttgc ctaagagatt 300
 tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt cgcaacatga gagtagatga 360
 actcattggt tcccttcaaa cctttgagct aggactctcg gataggactg agaagaagag 420
 caagaacctg gcg 433

<210> 21496
 <211> 105
 <212> DNA
 <213> Glycine max

<400> 21496

tagctttttc ggaaagtttc cggataaaga cttcttccgg aaaaagaatt tgggaattcc 60
 ggaagtagtc acaaacttcg tccggaagat cgtcacccgg aagtt 105

<210> 21497
 <211> 546
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21497

cacgtccaca tccaanncg cccacataca gtgcctatgc aaacagactc cgtaanacaa 60
 caacactncn ntcnntnaag cncgccgnnc nttgaggcct gtgaatgcgt cgcaanccgc 120
 ccnncaacnn aacncacgcc accgcgcacc gcgagacaaa caggcacatt agccgggtct 180
 aatcaaaac cgacggagac accgagcagg gcggaccagc ggctaacgcg aaaaagcagg 240
 cggccgggcg ccaacaagaa gacggggccc aaacacggac cataaccag agagagcagc 300

cccgggcccc aaggcccaag cgaccctgaa gagcagaggg cccacaccag aaaggagaca 360
 aggcaccggc aaacgaacca tcaccacaaa ggagaggccc aagcccagac cagaaccaca 420
 gacgggacaa gggggaaaca cacatgcaca gacaaagcgc gaaccgagaa agcaccgcgg 480
 caccccaacc tcaggggagac acctccacac cgcagaggcc ccaccagaac cagcagggcg 540
 acggcc 546

<210> 21498
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21498

agcttggttaa atcaatggaa tccatgattc tgtttgacac aagtcgttta attttgttct 60
 tagaaatgtg acctaagcgc ttatgtcatt tccaacaata ttttaattaa aagacaacct 120
 aaacacattg tttccagatg aacacaaaata acccaatttg tccaaataag aaacccaaaac 180
 caaatttcgt ctaaattgacg gtacaacaaa agtgtctttc aaatccaaat aaaaactagt 240
 acataataat ctaaaatgcc atatagcttc cacctccacc tatttaccat ctccaacata 300
 tatccatctt tcagaattaa ttggcttccg gtagcttagg caacactgca ttgaaacact 360
 gatngtagta gtggcaccag actctaacca ccaagtgggt ctaagtactg 410

<210> 21499
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21499

ntgatgtgcc ctctagtgat ctctcaggaa tggcagcagt ctctgggtctc tcctattttt 60
 ccctgcttc angatgaagg tgggtctcgga ggaagcatcc tatacctgtt agggtagctg 120
 ggctgtggga ccttcacctt ccctatcaag agaagggttg gtcccaggcc aggctaccct 180
 ctctaaaaac tgcttcactg ataggatgaa tcctggagga gctaccacct gtagactcta 240
 cagcaatata atctgaccct aatggatact ttgaggcata gcttcaaagc gctgcgagtc 300
 aacatgagct ggaactgaag gagctgcaga agtagatgtt ggagtaggtg ctggagctgc 360

agaagaagat ggaatatcag ctggcctcgc cctcgccctc ctagcccccc ggaaagcaac 420
tgttagatca tcaatgtttc aatag 445

<210> 21500
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21500

agcttggttcg cacatctttc gcgtgtatga tatccactcc acaagggttg aagtagagga 60
cagcttcaac cctataacgc aacgtggcgg acaaaagtgg gcagtaaact tgaatggtcg 120
tcattgtcaa tgcggaaggt attctgcgct tcactatcca tgttcacaca ttattgcagc 180
ttgtgggttac gtgagcatca actactacca atacatagat gttgtttaca caaacgaaca 240
catcttaaaa gcttactccg cacaatgggtg gcctcttggg aatgaagcgg ctattcctcc 300
ttctaataac gcattggacac ttantcctga cccaactaca attcgtgcga aaggtcggca 360
aaataacaag gataggaatg agaggattgg tcaaccatct ga 402

<210> 21501
<211> 439
<212> DNA
<213> Glycine max

<400> 21501

gactcacgct ataatatgtg aattacaacg ttagaaaact gctggtaatt tattaccatt 60
tatgtgtaat cgattgcgca gtgcagattc tgaattcaaa ttttaatagc tgttgtaaatt 120
cagttttggc cactggtaat cgattacatc ctctggtaat cgattaccag agagtaaatt 180
tgttgaaaaa gactttttta cttaaatttc ttggccaaac tttttgctac ttcaattgga 240
attccttccc tatttaatat accctttcta agactctaga gactgtcttg atcatccatc 300
ttgaatatat ttaatttctt tgtcttgaat agagctttga gacgcatgtg aaactttggc 360
atcatcaaaa cattcagctt gatcctttgt ctacagtttc gtgatagaat actatataaa 420
gttagtggac aaaaactca 439

<210> 21502

<211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21502

agcttcttgc tacaattact cattccagta taaggcagga cataataacg tgggtggtgga 60
 tgctttctcg cgtcttcaag aaccagagca aacagcagaa tacttccaaa tcttctccat 120
 gcctcaccgc aaattccttg atgagctgaa aaaggaatta tcgggatcag aggaattcaa 180
 aactctcatg cttcaggtcc gcaatgaacc ttcgaaaaac ccatattttg aaataagaga 240
 caacctattg ctttttcagg ggtgaatttg gattaatcag ggcaatcttt tcattcctct 300
 nttattggaa gaataccaca aatctccact tgggtggtcac atgggggctag ctaagactct 360
 c 361

<210> 21503
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21503

taagctcttt caactgcaca aggctcttaa tatttgaaga ttatccttgt tgaaccttca 60
 cccgacgaaa atactgacaa aaacttatct tctccttttt ggacaaagta tggcaagcta 120
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180
 cagctagatc ttgacgggta ttcaaaccat ccttcgtctt gccttgaatg ataaggagcg 240
 tcccaatcac actgtcacat acatttttct cgacatgcat aacatcaata caatgtctaa 300
 catctagatc agaccagtac gaaagatcaa agaaaatggt cctcttcttc catatgcaat 360
 tcttacgttt atccttcttt ngggtctttc caaatacagt attcaggtgt tgaaccact 420
 gatatacctg ctactagtc aacggtatgg g 451

<210> 21504
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21504

agctttttgt ttgttcttga ccaaattctt agttaatcgt ctttaacgtaa agcagtcttt 60
gtattcgttt aaaatgcatg aagataaatc agtaggagaa caattggatt tgtttaataa 120
actgattctt gatcttgaaa atatcgatgt cactattgat gatgaggatc aagccttggt 180
attgttgtgc tctttgctta agagttactc tcatttcaaa gagactntat tgtttggaag 240
agactctgtt tctcttgatg aagtgcaagt tgctctgaat tcaaaggaat tgaatganag 300
aaaggaaaag aagtcttcta taagtggatg agggctgaca gcaagagaca agaccttcaa 360
gaaagatagt anatttgata agaaga 386

<210> 21505
<211> 450
<212> DNA
<213> Glycine max

<400> 21505
tgtacacttt gtcttccatt tcaaaataaa gtaattatga taaaattatc tattttcaaa 60
taagggtattt tataaatgaa ataaacttaa ttgttttatt caaatataaa atttaaaaat 120
gaataaattt tggtatttta tcaaaataag aaatttttaa aataaaaata atattcaatc 180
aagaaattaa aaaaaattga aggaatttca attgaaattc ttaaagttta actttttttg 240
taattctaaa atttttcatc caaataccac gtaaaaggaa ttcggttcaa taaaaaaaat 300
tctaagcgt agctggcatt gataaccag tcattcattat catttggtgt gcacacagta 360
gagaaaaatc atttcttata aaaaataaaa gtagagaaca atcaaaacca aatttaatca 420
atattcataa gggtgtgtga gccaaatact 450

<210> 21506
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21506

agcttatctt gaattattat tgtatcctt gcaccctttg tgagctaaat tacattntca 60
aaattgaacc ctggacttga atgaatatct ccagatacct tgttttagatt ctaggagagc 120
agatagttca aggcaaatta cctcaaattt gggggagttg attgggatgt aaagtaaaag 180

<210> 21509
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21509

ttcacaaatt acaatcgagt gaaggtgtgt ttctcacgat ctttatgcat gtgttttagta 60
 ttataggagc aaaatagtaa aaataaaaag gttaaattaa taccaattta ttatctcttc 120
 gctataactt tctacattct tctaaaaaaa tattctctct agggaaacac ctgttttttta 180
 tgggagcaaa atcttttttt atcaaataca tataagaaaa aaaaaattat tgtggggtaa 240
 ttgccccctt agtcctaac ctacatcctt ccctgctact actacttttt ctaagccaca 300
 taatgggagc agagttaatc gtgtctgcaa taagtttggc acacatgatt cgtgccccat 360
 ctttagcaag attgttaaga gttgaggata ttttagtttt tatattntat ttgtaatatg 420
 cgtgtatgtc t 431

<210> 21510
 <211> 321
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21510

agcttgtctc tatgttatgg tgagggcatt gcggggggga ctcttgttgc tgctcactca 60
 ctatgtggag aattatgcac tcattttacaa caggactgta tcagcatgcg actcgggtcta 120
 actgttaacc caagtagccg caaaagggat tgtttaatgt gatgccttgg aatcagattc 180
 tgtcttaacc caaatagatt ctattactgc agctantgtg gaaggggctg agnggatctc 240
 tgacgaacca gaactaattg aaacctgacg tgtgttcact ccaaacattg tgatcacccc 300
 agcgatgcaa aaacggcgat c 321

<210> 21511
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 21511

ctgttttgac tatatttcca cggcctaaaa acaagattag cccacaaaaa tatttgattt 60
caattgtatc tttatgaaac cactattatt cattcttgta tttatcttta ttaaattgatg 120
tgatcgatc tcctcgatac ctacatatt ttatgggtgct taagagacta gaataactca 180
ttatattaaa tgaggcgaaa aaattaaaca atctgtatgg aatcatatga cacactttgg 240
atTTTTTTTT tggaagcttt aatata 266

<210> 21512

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21512

agcttattgg cgcaacagta ctcaggtagt gcaggctagc tagactgcga gactacgcga 60
gggaaagatt aaatttacca gcatacaaag atggctgcta taaaaccgt cattgggtaa 120
tccagttcaa caatgatgcc tattaaacct gtcgttgtaa ttggaagacg acatcgTTTT 180
cggataaac gtcgttgaga taaagcgcac atttactaaa atgtcaccgg ctgttaaaca 240
acgacatttt tcggaccacc gtccttgaaa gcggttccta gaatcaagat tntgtagtag 300
tgaatattct atattacatt ctataactat tttcttttac attttatgca tcatgcaata 360
ttttcatatt agtaatgtct aaattctaata ata 393

<210> 21513

<211> 430

<212> DNA

<213> Glycine max

<400> 21513

tccatcatct agtgtcaagg gaaattgtct tgtgttaagt gagattgttc ggtgtcgagg 60
gtggtaacct cgactagtgt aagagttgta ggtatgtgag gcatgtcaag ctcccctagc 120
ttggacgact attgttttagg cttcttctgg caagttgtct ggggtggaca tgcttttgat 180
cttgcaagca aagtttagacg tgtcagggtg atgatgtcct tatatatgac aattcagccc 240
ttttttgatc attggaggat gcattgaaga caaatgtttc gttttgtctt ttgctacagg 300
cgagtgcac acacacatat tactcttgca tatgtatcac tcatggagtg ggtgtgtact 360

gaagatgcaa tacatgggtg agtggagctg catcatgggt taaaaaatta aggcaccatt 420
 ttagcttatg 430

<210> 21514
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 21514

tagctttata gcacagcaac acagaatcta tgtgtccaac acccctcaat tcaatgggtt 60
 ttctaggttt gaaaagtga atcgagaatg aggtaaattt gaagcaaact ctcacctcac 120
 accagtccat aacatcaatc taaacttgct caaactggat ttacgcttaa aatctcaccg 180
 aatcaaaatt tgactcttcc acacccaaat ttgccctaga aatggctctt tgttcacttt 240
 ggtcatttgt ttttctctct agcacagcct aatctttctc ataagtcta aatgacattt 300
 caagctagga ttaactcact ttaacctcca ttaccacag aatccagaat taacctttca 360
 actctcaagc ctcactcttt ttcactcata ca 392

<210> 21515
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 21515

tctcttggac cttgaacaag caatttactc ctcttttata accatgctat gtgctcgtga 60
 ctgggtccatt tcttcccttc gcaacttgag ttcgctattg ctaccccata gagctcggcg 120
 aaatttatcc cggccatact cttccttgcg agccctcttg gtctcttggt caagggctct 180
 tgcggttaatt gcattctctt cccgtaaccc ggcacactcc ttccaaaatg tgtgttgcg 240
 ccaacttgaa cttttcctcg gctaatttcg cttttcctaa ctgcttttg agagcttgga 300
 cttcttcgct ctcttcgggt gttcaaaaac tgtcttcgct gacgactttt aacttggtga 360
 gccaatctaa acctcgata tgaactttca gccattcatg ata 403

<210> 21516
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 21516

tagcttttta aaggttgcg ttagcggcac caactcttca aaacttcac taagtattag 60
gagcttagcg agagaagctc gcttagctca gaggatgccg caacaaatcg cgcttgggccc 120
aggaaagctc ggcttagcgc gcgactatca acaaaaaatt gtctaagtta cttgggctta 180
gtgattcagc ctgcttagc cacatgtagt tcagcaagag gatgagtgtt catcctcaaa 240
ggttgaactc gcttagcgcg gtaggtgcac ttagctagtt ctttagagaa cgcttatata 300
cacaatgagt actgatgaac tcgcttagcg cagcatgctc gcttagcgag ttcacacgt 360
tttccagaaa acgcagaaaa cacagttcgt tttct 395

<210> 21517

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21517

tcaagaatta tgggtctcatc aaactatttg tttccttatg gaaattctat aaacagacct 60
cccatcttta atggagtggg ttaccactag tggaaaaccc gcatgcaaat cttcatagag 120
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
gccggaagtg caaccataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240
gtacaatata atttaaaggc caaaaatatt attacatttg ccttaggaat agatgaatac 300
tttagggttt taaattgtaa aagtgctaag gatatgtggg atacactaca agtaacacat 360
gaaggcacia cagatgttaa aagatctang ataaacactn taactcatga atatgaactt 420

<210> 21518

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21518

ttctgctttg agaacactcc agacatcttc tgaaagatcc caacggtcag agcatggaca 60
agtgtcgtgt gaagttgcag accacatttc gagaagatcc aatggttaac gaaggctggg 120
cagcgttggt accgaggcag cttcatgtag ctttctctag aagcttcatt aagaggctcc 180

tccagaagct tcattaagag gcttatagca cactccataa atcttctcaa tgatcccaac 240
 ggtcagatca tggataagta tcttgtgaag ttgcagaaca natttcgaga agatccaacg 300
 gttaacgaat gctgggcatc gttttaccga 330

<210> 21519
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 21519

taaattactt ctgtcagaaa agccttacia attggaggag gatgacatgg gaaatttaga 60
 agagaatcag gaatctagaa taggactata taactggaat tatcttgtag acaatattca 120
 agctagtgc aaggaattat tgctgggact gcaggctctt tcagcgctgg agattaatgg 180
 gtattggaga ctagtagacg agagttacat ggacatgatt ctgggaatgc ttttgaaaaa 240
 tgcagtgttg aatgactggg cacttaatgc tttaaataa gatgaagttg tgagtatact 300
 ggaatcagat ggatttcta ggggtgcttg aaggcattgt ttgcacgtat atggcaacaa 360
 agtaaataag tgcatgccta gctttgtttg gaagttggat gagaagcgag tatgcataca 420
 t 421

<210> 21520
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21520

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 ggtttctaata gactcctctg cggcctccac ataaggcata gaggatgggc agtcaccaa 120
 gatgtcttcc tcgctgata cgatgacaag atgcccttcc actacgaatt tcaacttttg 180
 gtggagtgtg gaggaacaa cgccactga gtggatccac ggacgcccc aacagacagct 240
 gtgggggggg ttaatgtcca ttatttgga ggtaacttgg catgtgtgag ggcctatctg 300
 cactgggagg tcgatctctc ccctaacctc tcggcgggtg ccgtcgaagg cacgaaccac 360
 cattgaactc ngctntatgt gggaggcatt gaatggtaat ttc 403

<210> 21521
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 21521

tgtaggatta tggggtaccc atcacatgtg gtactagggtg ttgggtcgggc gatggtgcac 60
 aacaaggttt ccacatccac aatgcgcgca taaaccacacc atccccctgtt gccacacctcc 120
 atctgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180
 atcaatcctc ccaagcttcc acaacatcca agcgaaacaa cattcaaaca gcacaagcta 240
 tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaattat 300
 agcttttctc acttaaagac cccagtaaca attccttcga tccaattcgt taaccgttgg 360
 attgactcca aaattttact ggaagtctat agtacagaag cctacattgt gaccgttggg 420
 atctactagc aaacatccat aactcattct g 451

<210> 21522
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 21522

agctttataa agatatttat tttggtggct ctaggggagg ttatggtaga agtaacgggtg 60
 gtcgtaatac ttcattctgat cgcgggtggg gtgacgggtg ttttggcaga ggccgcgggtg 120
 gatgcagggt tgccaacttt tagtgtcaaa tttgccttaa gtatgggtcac actaccaatg 180
 tgtgccattt tcaaactcac gagtcactca cttttgttga tccaactaca ctccaaccta 240
 tttcgtattc aattggttcg attaggtcct caaacacttg tgttaatcct aactcccagt 300
 ctgttgctca gccaaactaat caacctagtg ttatgctaac aaactcagca tctcatggaa 360
 atgggtcaagc tagctcgaca tggattccag attctggagc tag 403

<210> 21523
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21523

ntgccgattt agtntttgtc ggtgaaagga ttgaaatggt tctgagaaga tgcaaatttg 60
 agtatcctgc tttgatgaat gggaagccta gggaaaatgg agagaacaag aaggaggag 120
 gaacccatgt tgtgactgtc gttcctacat gacccaattt cccactagct caacaatata 180
 aatactcagc caatatcagt ctttctcatt acccaccacc ttatcagcca agaaggccac 240
 ccctaaatca tccacaaaac ccgtctgccg cacatccgat atcaaacacc acccttaaca 300
 caaaccaaaa catcaactac ggaaggaatt ttccagaaaa gaagcctgta gaattcacc 360
 caattctgtt gtcgtatgct aatttgtctc catatctact caataatgca atggtagcca 420
 taataccaac aaagatt 437

<210> 21524
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21524

agctttattt atatactaga ctatgttttc attatgtatg aattgcatat gcataaattt 60
 gatgaagata gccttagtaa tgatgatggt gttagatttg atgacaataa gagtgaaaat 120
 gatagtgatg ttggttgtga agatggagcc gaggagcaac atggaagtct tcatgaagag 180
 aaaaggatat cttatttgac aggcgatgag ataaagggtc tccattggga aagtgaagat 240
 agtgtttttc aattctatac aagatatgct agatgccatg gggttgtagt taggaaagat 300
 gatgtatttc aagatttgaa tgacaatggt ataaaacatc aatttgtatg caattgaaag 360
 gtttgagaat angaacactt atgaggtgga ta 392

<210> 21525
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21525

tgtaagccta agccaatagt aatgatcaca tgcaatgcat ttagatatgc aagtaaata 60
 aaattgtttt gtaatcaaac ctgacacaaa tgagggatgc aaataaatgt cctcttataa 120
 acaatgcaac tgcttatttt tcacccaaat agccttcaaa catacagcta cacaacttaa 180

ggcacagtat cccctgtgc aatgacctct ctaacctcca cacaattca acgtgtgact 240
cattaggata caatacaatt tcagcaaact tttgatttaa gatccaaacc ttaatcctaa 300
tcacaacaat catatgcagt ggatacaaat acacgcagtt ttgtgactct cccgtcatct 360
ccttcattcc tgcttatttc actaaacttc acagtaaatt ttatcaatat ggcgttggtt 420
tttgtggtat attgngatac atcggaatga t 451

<210> 21526
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21526

agcttattac aatatacttg tccttcattt aactgtcttt gggcttggcg gccacgatca 60
acaaagtact ttcgacacct actatatgtt gatttgacca acgctgttat cggatatgtta 120
cgacaatcct tcaatacctt atttatacat tctgagaggt tcgttatcat gtggccatat 180
cgacgtcctt ctctatcata agccatgggc catttttctt ttgaaatgcg atcaatccat 240
gttgcctatgg ctggactcag ttgacgaaat tnttctaaat tttgatcaaa aatatgcttg 300
caaggagtgt agcctgcatg aaattagtta gcaacaataa ttngaagtat acatganact 360
tanattaaca tgaccatgat aaatgaaatc ttaccaat nttaacat t 411

<210> 21527
<211> 444
<212> DNA
<213> Glycine max

<400> 21527

tcagaacata atggcaacca ttcctctctc aaaccagatg tggaaacgcc cctcaaaca 60
gaagtggaaa caccctcaa gggttcgaga gatcgcaaa gttttgcttg ctgcgcgttg 120
atgaccactc atttagggct ttttatttaa ttcaattgag ataacgacgg gtttttaata 180
aaaccgtca taatttttat gaccaatata cattctaagg tggttttcaa taaccatctt 240
agaatgtgca tcgtaaaaga cttttatcat aaaataatta caaaaatgtc aatgtctcat 300
tttctaaagt ggttccaaaa gaaccgtcgt agaatgtctg tcgtaaaaac acaagtttct 360

tgtagtgatt gagtcatctg tgtactctaa aattgaaaat tgtatctcat caactacctt 420
aactccatca aatagacctg catc 444

<210> 21528
<211> 397
<212> DNA
<213> Glycine max

<400> 21528

agcttataca ttcaatttcg agcgtctcga tatattacgg gactcaatta gacatccgag 60
taaaaattta ttgtcgtttg aattggctca caggctcaac attcaatttc gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt aatgtcgttt gaatttgctc 180
atagcttaaa cattcaattt cgagcgtctc gatataattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcgtt tgaattggct catagggtga acattcaatt tcgagcgtct 300
cgatatacta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattgct 360
catagcttaa cattcaattt cgagcgtctc gatatat 397

<210> 21529
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21529

ttgagcaaat tcaaacgaca ataacctttt actcggatgt ctgattgagt cccgtaatat 60
atcgagacgc tcaaaattga atgttgaacc tetgatccaa ttcaaacgac aataactttt 120
tactcggatg tctgattgag tcccgtata tatcgagacg gtcgaaattg aatgttcaac 180
ctatgagcca attcaaacga caataacatt taactcgaat gtctgattga gttccataat 240
atatcgagac gtcgaaatt gaattgtcaa cctctgagcc aattcaaacg acaataactt 300
attactcgga tgtccgattc aataccgtaa tatatcgaga cgctcaaaat tgaatgttga 360
acctctgagc aaattcaaac gacaataact ntttactcgg atgtcttgat tgagtcgcta 420
atata 425

<210> 21530
<211> 390

<212> DNA
 <213> Glycine max.
 <400> 21530
 agcttattcc tgaacgttat gcgacatctt attcgtggct aagcgggatac tattgtcgcc 60
 aagcgcaatt ccttacggcc ttaattgagg tccatgacgc taagcgccag tcatggcagc 120
 taagcgagat tctttgcagc aatatgagcg ctaagcgagt acctctcagc taagcgcgctg 180
 ctccctctgta ctttaagatgc atcatttttag ctacattggc tagggccagg cttagcgaga 240
 gttgcagctt ttctaactctg caggtctcgc taagcggacg tactcttgtg ctatgccgag 300
 tttctgttca aaaaaaaaaat tcaaatttga aacgtcggct aagcgcacgt gttcgctaag 360
 tgagcctggg tgagaaacca aatgtctctc 390

<210> 21531
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21531
 ntagtggat aaaatgagaa atctatgggtg tctaagatat ttacatgaag aggtctggag 60
 atagattcaa ccttcattct tttgcgtctt cggctagaag caccagccta tttctcccag 120
 aaattctatt agaaataacg attgacaata aagaagtaga acaaaatgac aaggtagata 180
 ttaataccta agttaaaagga agattagggga caaaggattt tttagcagca acatatttgt 240
 tagttctctt gaaagttaaa gtttgcctctg gagaagggtc ctcttctata ttttccaagt 300
 caatcgtctc aactcgatgt ttagccatca aggaaaatgt tagtagaata acaacggtga 360
 aaaaagagac cataagataa cgctataacg aggaac 396

<210> 21532
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21532
 agcttatgat attttttaat gttntcttac taattgggggt tatttgattt ttgtattaat 60
 ttcttttata ataaactcac ccctctcaat tttttgtacc gtgtgggttg tacttgtgat 120

gataaaaatg agagaaaaga aaaagagtga gacacttgag aggaaaaaga gtgagacact 360
 tgagaaggaa aagtgaggaa agactaagag tgatacactt gagagggaaa agagagatna 420
 tcaaaagagt gaaaca 436

<210> 21535
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 21535

tcgtttggac cttgaacaag caactaactt ctctttcagt accatgctat gtgctcgtga 60
 ctggctccctc tcttcccttc gcagcttgag ttcactattg ctaccccata gagctccgcg 120
 aaattttatc cgccataact cttccttgcg agccctcttg gtctcttggt caagggtctt 180
 tgcggttaatt gcattctctt cccgtaaccc ggcacactcc ttccgaatgt gtgttgcggc 240
 caacttgaac ttctccttgg caagtttcgc ctttctaac tcgcttttga gagcttggac 300
 ttcttcgtcc tcttccggtg cttcaaaact ctcttgcgtg acgactttta acttggcgag 360
 ccaatctaaa ccttgatat gaactttcag ccattcatgg cagccaccaa tgatgccatt 420
 acgaatgcct ctaagttc 438

<210> 21536
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 21536

agcttttgta ctattaaact atataacagc accaaggttc tagtttagag ggctcttcga 60
 tttattcggt tttagtttta gtctctctct ctctctctct cttcttctct ctctattttt 120
 cgtttttagt tttaggcttt tcttagacac ttttttggtt tgcaattcca gttttgactt 180
 ttcatttttag caataaaatt tcgttcttca atctataatt tccttctcta ttgattaatg 240
 gaaggctaga ttttctggtg ttgttccttt tgaggacgaa gcccaactct ctttgaggtt 300
 tcgcttgcaa tgtgggttcc tggcagtttt ccttcacca gttatcccaa tttcgtgaat 360
 attaatacgt gcacgcttcg tgttcgatta attgcctctg ag 402

<210> 21537

<211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21537

 tataagaaca aaattgcctt aatcatttct taatatgcat gtgaattang gcgcatcaac 60
 aagaatcatg ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatact ataattcana gaaaaacatg 300
 caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actgaaaatc cgacgaaact 360
 aacaacatta acaaattaac acaactaaca aattaacaaa accaacaaaa ct 412

<210> 21538
 <211> 392
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21538

 ttcacttgag gagggatggt tngacctttn gaagaattnt actgatgtaa ccactatttt 60
 cttctaactn tttagcgtat ttgatcacct atttaaggga cgactacctt ctatatgggg 120
 atttatcatt gagtattagt aattgggccc acttgacgaa ttaggtgctc tcaagtcaaa 180
 ttctgataa ttataaccaa ttgggctgat cctaagtgga cttgggtcga caagacggct 240
 tatatacaat acgcctaatt tcatttgatc gcgttcacgg tttatgtaag attcttaatt 300
 catcttaaac ccacactatg ttatcctggc cagtggactt gagtgaacct tatcaacact 360
 cctttgatac atgcaggagt gcatatctct cn 392

<210> 21539
 <211> 421
 <212> DNA
 <213> Glycine max

 <400> 21539

 tgttgaaata tctttgactt gatttgtaa atccataact ctatattcaa tttttggatt 60

atgcttaatg agttttgtat atttgacatg tgaatcaaga ttctaataata tacttttagat 120
tattattatt atatcatacc ttatataata tatgggtgatt gcaatgaaag taaaaataat 180
atatctcgat catcgtgtga tattggattt ggtgtacatg tgaggtattg atatatatat 240
atatatatat atatatatat atatatatat atatatatat atatttgttt attatatatt 300
ggatatataa atagtagatt atttttttca catattaaaa tgttatacac atatagatta 360
aatatgtgaa ttataagatg ttaagggaat atctattaga tgtaacatat tttgaatagc 420
a 421

<210> 21540
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21540

tagcttcttg gtgaatcaaa ggtgattcaa aggtgttttg atgataacaa tgatgataac 60
aaaagatgat gacaaagggtg atgacaaaaa gctcaaagaa caactcaagt gactcaaaga 120
tcaatcaaag aacaactcaa gtgaatcaga gatcaatcaa agaacaactc aagtaaataca 180
aagatcaatc aaagaacaac tcaagtaaata caagaagaat tcaagaatca agattcaagg 240
ttcaagatct caagaatcaa gatcaagggtt caagactcat gattcaagaa tcagagaatg 300
ctcaatcaag ataagtatga taagtttgtc tcaaaaattg aatagcacgt gatntttcta 360
taacatgtnt accaaagagt ttactctct g 391

<210> 21541
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21541

ntagtcaaac ataataatcc aaaaatgtca aagaattgtg tgttgaaaaa gcataacaag 60
actttctgtg attggtttta agatacaatc tttgcatgtg agaattgttc agaaacatta 120
agaaagctag cagataggcc taaaagaaat gttataactt ggcaaggata cgacataaac 180
aagtattcat ttacacaaa agcacatgat gagaaaagta caatgcagaa cagcgggggtc 240

accctaaggg ctgaatctca acacttcgca agtgtgaatg acaccaatcc ctgtgtagct 300
 tccatccctt actttgggtt cattgatgaa atttgggagc ttaactatgt gaaatttact 360
 gtatgtatatt tcaaagttaa atgggttgat agcaacaccg gtgcgcacac cgatgatata 420
 ggatttacat tggtta 435

<210> 21542
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 21542

ttagcttttc ttcttacaga cagcgaaaaa taatggttat acggatcacc actcgagtat 60
 ttccgccagt cagcgtgact caaatgtcag tatgacagat cttgtgagcg cggaagatga 120
 cgtaaactca cgcgtgtcaa cgggcttgct gcccggtgatt gacgaaggga gcagaagact 180
 acggtagtct ttgcgtgccca tcaagctttt cgtcttacag acagcaaaaa ataatgggta 240
 tacggatcac cactcgagta tttccgccag tcagcgtgac tcaaagtga gtatgacaga 300
 tcttgtgagc gcggaagatg acgtaaatct ccgcgt 336

<210> 21543
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 21543

tctacttatg tggcagggcg ggctttcttc actttcttgt ctccaacgcg agctttgacc 60
 actgttcttc cttcccgga tgcttctttt catatccgcc tgagtgggct tatagcctaa 120
 accatacttc ccacggtttc cttgagtatt tatcaggcta gttatgccgc cgttgtcttt 180
 gcctaaacct atcccggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240
 tgcacggac agacaaggct gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300
 aaaagactgg aaagcggttt ctaacgatct ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatgt ctttctcgcc tgacacgatg 400

<210> 21544
 <211> 377
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21544

agcttcttgc ggatcatcta cgtcaactac ggatcaaata tagcttttgc agatcaacaa 60
aaacctatgt ggatcacgtc atagcatacg cggatcaagc tgaatgagct ggggtgcacaa 120
aaatatttta aaaatacacg ggggtattttt gcctttttcac gtaggggtgct ggggtgcacct 180
agcaacaccc ctgaccatg gaaggccatg aaaggagaga tgtacagaaa ctttatcaga 240
gcttaacttc ccatccaaaa aagaagattg gttattatta caagggactc acataattag 300
aattaaagtg ggtctcaacc aattttcatg ctgattttga ggattttttt caattttcgg 360
ttgttcataa accacac 377

<210> 21545

<211> 419

<212> DNA

<213> Glycine max

<400> 21545

tctttgagaa aacttccttg agaagctaga gcttagctac attcaccctt ctcataacta 60
agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120
acataccttt ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180
caccctata atagctaagc tcaccccat gacaaaatac atgaaaatac aaaaaaaaaa 240
tcctactac aaagactact caaaatgcct cgaaatacaa ggctaaaacc ctatactact 300
agaatggcca aaatacaagg cccaaaggaa ggaaaaatct attctaatat ttacaaagat 360
aagcgggctc atacttagcc catgggctcg aaatctaccc taaggctcat gagaaccct 419

<210> 21546

<211> 385

<212> DNA

<213> Glycine max

<400> 21546

agcttggaac taagcttctt ttctctaaaa cttgtcatcc ataaactgat ggacaaacag 60
aggtagtgaa taggtctcta tccacccttt taagggtctt tttgaaaggc aaccataagt 120
cttgggatga gtatcttctt catgtagaat ttgcctacaa taggggggtt catagaacca 180

ctaagcaatc cccttttgag gttgtctatg ggttcaatcc tctaacaccc ttagacctaa 240
 ttccccctccc acttaacact tctttttatac ataaagaagg ggaatctatg tcaaagtttg 300
 taaagaagta gcatgagagg gtttaggaacc aaataaagaa ccagacaaaag gtgtatgcaa 360
 ctaaaggcaa tagaggaaga aatga 385

<210> 21547
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 21547

cgtagaatta tggggtaccc atcacatgtg gtactaggtg gtggtcgggc gatggtgcac 60
 aacaagcttt ccacatccac aatgcgcgca taaaccaccc atccccctggt gccacactcc 120
 aactgagctc acgtactccc acatagccca tctcctcggt tctctcaaca ccgggtcccc 180
 atcaatcctc tcaagcttgc acaacatcca agcagaacag cgttcataca gcacatgcta 240
 taacagccga tcacaacata gcacatgcag agaactctgc tgagcacatc aaccacaatc 300
 acagctgttc tcacgtatag accacagtaa caattccttc gatccaattc gataaccgtt 360
 ggatcgactc caaaatttta ctggaagtct atagtgtata agcctgcatt gtgaccgttg 420
 ggatatacta g 431

<210> 21548
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 21548

cgcttgatg accaatttgg tggcatgatc ccctttttta caaacctctc tactattcat 60
 ccttacccta aatcaaattcc tcaaaacatc ttatttggtc gttagcaagt ataaccaagt 120
 gaatctagtg tgagaatcaa caaagggtcac ataatactta aaaattgaac tagaagaaaa 180
 tggttgtaagg ccccaaagat cattaaaaga agttcaaaat gtatagaata tatagtaaca 240
 aaaggagaag gaagacaatg agacttgcca tgatacgatg tgtacataaa tcagaaaaaa 300
 aaaaatttta ccatatgaag attataaaga ctgaacacaa tactcatggc aacactagga 360
 tgagcaagtc t 371

<210> 21549
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 21549

tgagccctgt gtgaaattcc ttccttggtt gaatcttggc gtttctcatt ggttgtagcc 60
 ttagaatccg tgatgattct gagctcccat gtagttcacc tgcttagaag aatttacttg 120
 ggttatgcat tgctctggct cgcgtgctcc accgtacatg tggcatcccc ctatttgcac 180
 gattgaagag tgagaggaac ttaccgctta tagtttttta gggagcttgt tgaggatctc 240
 tgtgagggcc tctatctgtc ggaccaatag cttgttttgg gccaatgttg catcttgggt 300
 tgtgagttcc agaaggctcc tctttgctgg catgtatgct cgaccatgaa ggatggcgtg 360
 atcattggcc accatgttct ctatcagctc cattgcctac tccagtgtct tcagcttgaa 420
 tttc 424

<210> 21550
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 21550

cgcttgctga acaatctgtt aattaacctt tctatgcatg catagcctat atccattatc 60
 acaaagacta cctaccagca aatcattgaa attcactccc agcaccacag gcttgcttgt 120
 cattaacaaa ataaccgaat attataaatc ttatgtacag gatcttttat tcattcaacc 180
 tgctaggata acataaagaa gctgtgacat tatggcattg gactgcaacg acactacatc 240
 aagatgctat gaccacataa caaacactag agagatccta cagttaagcg caattagaga 300
 ttaaagatct agcgatgtta tttagaacta gcatgtctag taagagtcaa tactgattaa 360
 accaatacta accttacat 379

<210> 21551
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 21551

tccatcaagc	aaaatcatca	aaaagggtcat	ttgacattag	cgtaaatacat	taatccaaga	60
aactatcaaa	gcttaaccac	caagcagaaa	ctatacctca	aagtttaacc	actcgataaa	120
agcaacgagg	cttaaccatt	aagagcagaa	acaaaacaac	gattcaatgc	ttaaccatcc	180
atgtcaaaaa	cttaaacat	gtttaatcac	cgcgacaga	agcttaccag	gacttttcac	240
aaacattttg	tgaatcaaca	ataatcaaag	cttaatcact	catgatagaa	gctaacaat	300
gaacaatgct	taaccaccac	acatgacaga	agctaaaatc	atcagaacaa	gtcgaaaaac	360
tttagaagta	tttaatcaaa	caccttgtag	acaaacaaaa	tctgaacact	agacatgaag	420
aaacttacac	aa					432

<210> 21552
 <211> 363
 <212> DNA
 <213> Glycine max

<400>	21552	
agcttgcttc	tacacatga	acataaaata accatcatatc gggtatggac acaaattcaa 60
acattacatt	aacttctaca	taggggaaag aaatataatt tgcataaat actacaacta 120
agtaatgcta	attttgtgac	aaggacacgt cgtcttccat ttccattaaa tggttactaa 180
aaacaactaa	gatttctatt	gacccaaatt ttttccagta gttagactgc actaacacct 240
ttagcacgtc	atcgttggtt	ttcagttcaa taattctgaa ttgataatt ttatctgaat 300
actcatagt	gcttggtt	cgaaaaaaca atcgccttac cgtttgtgtc tcatgaatac 360
cat		363

<210> 21553
 <211> 287
 <212> DNA
 <213> Glycine max

<223>	unsure at all n locations
<400>	21553
tgcacttgag	gaccanaat atgaagcaca gttcgctgat ctggccacag agcacaacaa 60
gcgggccaca	tacgcaatgc gcgcataatc ccaccatacg ctggagctca cctacacata 120
ccctactgat	ctccacata tcccatctac taggaaatgt taaaactgag cccccacccc 180

tataatagct aagctcaccc ccatgacata atacatgaaa acaccaaaaa aaaatcccta 240
ctaccaagac tactcaaaat gccctcgaat acgaggctca aacccta 287

<210> 21554
<211> 372
<212> DNA
<213> Glycine max

<400> 21554

agcttcataa gcactatattg agccttatgt gaatctcaac ccctaagacc caatgtctca 60
acagctgcac actacgactt ttcacacagc tttgctgggc aacgccttcg tcattagccc 120
ttttcaagac attggcaacc aactttgata ggccgtaatt aaagcagggc caaggatgac 180
tgcaattaag gtagctttcc aacaaacaac atctatatca aggaatcatg caccatcaca 240
aattcaaagtg gctcttaaca tactttctgc atcatcataa gaaataaact ctctaaaaga 300
gggtgaacat tcatcataat atcatcccat ataaaattca gccacacaaa acacataata 360
gtttcatacc at 372

<210> 21555
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21555

ttatggnggc ttangtgtca gagactagcg gttgatttat gtttcgcttc ttgggaaatt 60
aatctaggac ttgcttcaat caccctgaa gtcgtgggtt caggttatca aagcaagata 120
cttgaatcac ttctccgtcc taatgatacc tccaagtaaa ggggcctcgt atgtttggca 180
taatatatta aaagctcggg atcatctttg tagtggcttt atgcctcatt tgggtgatga 240
aagctcaccc ctatggaact caaattgatc aggtttgggt gcactgagcc agtttgtgtt 300
gtacgtccac atcatggaca accattgtac tgtctttgac ttatgacaga atgtaacttg 360
gcaatttact aaccgacgca ctgaaatacc aacgtaaatt gttgcttgga ttagtgagat 420
tgatt 425

<210> 21556
<211> 377

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21556

agcttgtaat cgattacaca tatactgtaa tcgattacct gagcagattt tcagaaaata 60
 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gcgaagagtt tttcaaaaca aaaaagtctt atcctcttat 180
 aaagcaaaat tgttttatcc tcttaciaat tccttggcca aattacttgt gattcaataa 240
 ggaatTTTTg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300
 ttcttcttca ttctgaanag ggattaagag accgaggggc tcttggtgtg aaagaattct 360
 aaacacaaag tgatgtg 377

<210> 21557
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21557

tattgcttta gcactaattt tcagctcgcc tgtgcgtgct gcaactgccc caaagtgacc 60
 ctttgccat aaatagccat cctacgggtg ttttaagggg ttccaagggt cagaagggtga 120
 ggggaatTTTTg aaaagagaga aagaagagga aacaaagtcg aggcattgcc gaattgcaac 180
 cgcgatcatt ccttatttcg ttttcttggt ctgtgttctt cgtgcaaccg tcagttagtt 240
 tatttttttt gtaattgaat gtgatctatg tacccttagg ggtgcccccc ccccttggt 300
 attttggtga tattcatttc ctccatctat cattgacgat ctcatnttc ttataaagt 360
 tcaatcttaa ccgatcacta gtgttgtaaa gttgtcttta aagagattga aagttaataa 420
 acaa 424

<210> 21558
 <211> 368
 <212> DNA
 <213> Glycine max
 <400> 21558

agctttatct tcacataagg gtcagatgca ccaagaagat ctttcttctt taacttcatt 60

gcttgcagaa cctttacatg taaaattcca acaggcctct tcaaggctct aagattccca 120
 aaaacattca caagaaaaaa cagaaaagag tcaaggtaat ataccattat attttgacaa 180
 acatttatag aaacgaagta acatactttg acatatctaa cacttgaact tccaaggttt 240
 tgggccatag atacatgttt gcaacctgat ctttgataag ctcttgaaaa caacactctt 300
 taagttagtt taaaagtgat gaatacttca acaaaccaaa accaaaacca atacaagttt 360
 ggtacaac 368

<210> 21559
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21559

tcataaatga acaccaacat atgaacgtac attttatttg attaaatctt ttcgctgttg 60
 ccctaatact aatactggtg accaaatatt ttggcagtgt gtcacattca cattcacatt 120
 ttgatgatat cctacgttgc cataaagata tctttacatg attaccagtc acgtacgtac 180
 cgactctgac aaacgtacac tgcaatttgt accgtctaga tattgatctt tgactgcttt 240
 ctgatgctga ttctcttgtc agcctttttc tagaacaatc aacaatattt tacttctcag 300
 atttttaata atcgaatatt ctttttggac tgttaagtgt taaccgatgc tcatacatc 360
 tattgcctct agattaaata ttcattnttt ccaagattac ggctgtgttg catatctcct 420
 tactag 426

<210> 21560
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 21560

tgcatgctag ctttgagcca aaatcctgac tcaccataaa ctttgaccca ggggtgagaat 60
 gccaatcctt accctcggaa gcaaaaaaaaa ggagagagag agagagagaa gagaaggaaa 120
 atttccgatc aaaggaaaaa ggagaaggaa aatttccaat caaaggataa aggaaaggaa 180
 attcccaatc aaagagtggg ggaaagcaaa aagaaaagaa agaaaattcc caatcaaaga 240

atgggagaaa gaaaaaaga gagaagtcaa aaagaagaaa tctcctggtc agagaaacca 300
gaagatatgt gccgagaggt ccttggacca gacaatatct gaacaatata gaattgtcac 360
caaatgaata aaatagaatg aaaggaaacc acg 393

<210> 21561
<211> 400
<212> DNA
<213> Glycine max

<400> 21561

tcaagttgct cattgactcc agattgctac aaataattac agagatttgt atgggtgatcc 60
acagaagaac atagaccaca gactcttgca gcagggttag atttctgatt catggcaagc 120
tgggttacta ggttgaccaa ggcattaagt tttccctcaa gctttttatt tttagtagat 180
gaagatgaat ctgtggccac ctcatggact cctctaagga taatagcatc atttcttgca 240
ctgaattggt gggagttgga agccatcttc tcaatcaaat tcctagcttc agcaggggtc 300
atatcaccaa gagctccacc attggcagca tcaatcatat tcctatccat gttgttaagt 360
ccctcataga aatattgaag aacgagttgc tcagaaatct 400

<210> 21562
<211> 356
<212> DNA
<213> Glycine max

<400> 21562

agctttaacc tcatcgctcc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccacc gatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcaaact ccttggagta ccctcgcat 180
gtggtcacta aaaccccgty cgatgaaagg cgtgatgctg tcgtctaata gcgctcctct 240
catggggtag ccaagctgtc ttatggcgag aacgggatta taattaatac gacccttgt 300
tcccatcaag ggaacatgtg gacatccttc gcatgaagat agaattctga ttcttc 356

<210> 21563
<211> 414
<212> DNA
<213> Glycine max

<400> 21563

gcttatccaa ggctcatctt ggcgggtaag ttccttcttc caaggcttat tccctagtgg 60
atggcgccctc ctctctctc ttctcctttg tcttccgctt catctccatg gtgaaaaatc 120
accatcaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
gcttccatca caaattccgc accagcatga ttggagtacc gaccttaagt gttaatttgt 240
gattaggtat ccctgatgtt ttcaatgagt ttagaaattt aggtgtcagt aatccgaaag 300
taggattgag tagttcatct tatttatcaa tggtatcagt gctacaatac tctttttcgt 360
cattgtgtat caatgataag acaataatct attttgtcaa caatatcttt tttta 414

<210> 21564

<211> 358

<212> DNA

<213> Glycine max

<400> 21564

agctttgaaa tttggcatct gaagtctgaa agctctaggc agataagtct gcaaaagctg 60
gaagtggggc tgaagtagaa gatgcaagga tgccagctat tgggtgcaaag gaagaggag 120
catcagctgc tctgatcttg gtcttccttg cctctagaaa attaactgtt tggtcattcg 180
cattccaaca gttccttatg atataagcta agtcaatggc tggccttatg ttttcatagg 240
aggtaagggc atcagatccc actcccctcg atctgcacaa ggttgtgatt aaagatggga 300
agcctaagcg agaagagtta gattgagcca ccatgggtcat ttgtccagag atcaaacc 358

<210> 21565

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21565

tgagcttggt tcaaccccgt aatccatggt ttggaaattc tgattgcaa tacttcaaca 60
acatctcata gggatgaatg actcgggcat actttaagct tatgcacgga aaatgtaatt 120
atgaaattga gatgcccga gaaacacat ttcctagtta accatgcatt aggtaccatg 180
ttcaattatt ttgttttgtt gttgtgtgtt ttttttttag aaatggggtt atgatcccaa 240
catggttggt tcatggtgcc taacacatgc aactaagaat gtagtgtgaa gtttcacgct 300

tcccccttttt tgttttttgtt ttgtagagga aaacgcaagg atgagcaaac atgaaaacaa 360
atgggtatgca attntgcaga tcaaacagtt tgttgaacgc atatgcatga tgat 414

<210> 21566
<211> 372
<212> DNA
<213> Glycine max

<400> 21566

atcttcacaa aatatgttac tatcaagctt ctaatcaagt atttttttca agaaccagat 60
tcggttttaaa ctgattcccc tctctgaatg tatgctttgg ctaataaaat cttcttgtac 120
tacttcattt cgtgggttcga aagcagacgg gccacaagac cttccaactt ttggcaattc 180
agattccctt attagctaca acccactacc ctgagcaata tataagcata gcaccagctg 240
catattctta cagaaccttt ccttcaact aaaaaaata actccttggt cttctgtccc 300
ttatcattaa tctttctctt ctttatctag ctagcaaagt gcaacattac aatccttctt 360
aagctcttag ta 372

<210> 21567
<211> 430
<212> DNA
<213> Glycine max

<400> 21567

tgaggtacca ttgttgaatg ttgaaactcc gaaactatgt gtcacaggga taccaatctt 60
ctattcgatc ccacagaggt taatgggttct gtttctcgaa gccattgga tctccttggt 120
gtcctttttg ggccatctgt ggtatggccc gttttgttgc taaacttaat caagaagaat 180
aaaaaataat aaaagaatta ttttattcct taataacttt ttggagaaaa aaaaagcac 240
agttaaaatt tttatatatg taaacctttc attcgatctt acattttttg ttttaaaatg 300
agtccatgat attaattttt ttttcatttg ttttcagtaa atgccactta tatatatata 360
tatatatata tatatatata tatatatata tatatagata tatatatatt agtccttcta 420
aaggttgac 430

<210> 21568
<211> 373

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21568

 agcttgttga aattgtcatg ttggatgagt taaacatacc cattctgttt tagggttttt 60
 gtgatgatgt ttgtgatgtt tatatgcgga aattgctgat ggaaaactgt tagagatgaa 120
 gggtagaact aacctagggt tagaaagtga gaatgtgatg ttatgagtgg aaaaagaggg 180
 aggctttgag ggttggaagg ctaagtctga attctgtggg aaatggaggt taaagtgagt 240
 taatactagc ttgaaatgtc atttaggact tngnagaaag cttggactgt gctagagaga 300
 aacaaatgac caaagtgaac aaagagccat ttctagggca atattaggtg ttgaagagtc 360
 aaattttgat tca 373

<210> 21569
 <211> 349
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21569

 tggagctcca agtgcaacca acctctagca agaaacatcc ttttcacttc tttaataataa 60
 ggagccttac caggatgtcc tttaataaaa aaggatttga aaatattgaa ttattggata 120
 tttgattaca tactttgatg caatccttcc aaggagatcc atcaccagag ccatgaccag 180
 gagacttcag gaagattggg ccanagatag gcgagaaggt tttgtctaata gcaggagctt 240
 taatgtggat accgaccggg tggattgaga ggacgtgatc ttatttttgt ccatccttta 300
 ttacgattac aggaacattt ggacatgcta tatagggata tataataact 349

<210> 21570
 <211> 387
 <212> DNA
 <213> Glycine max

 <400> 21570

 agctttgaat ctctttgaac ttcttcttct tctttgtacc aaaagcttta tgaagttttc 60
 tggttttcca aaccttgaaa acttgtgcta ttcattcttt cattctcttc tccctttgcc 120
 gaaaagaatt cgccaaggac taaccgctg aattcttttt gtgtctctct tctccctttt 180

ccaaaagaac aaaggactaa cgcctgaat tcttttgtgt ctccattctc ccttgtcaaa 240
gaattcaaaa cgacacagtc tgagaattct tttgattctt cccattccct aatacaaaag 300
tgttcagagg actaaccgcc taagaattct tttgtatccc caagcatcac ctaagttaat 360
ttttataata gaagaaacac cccaatt 387

<210> 21571
<211> 424
<212> DNA
<213> Glycine max

<400> 21571

tgttgacata aatttgacag tatgccttta atgttgtgta gtgatctttt gtcatgcatt 60
tgtactatgt tttgatgaat gcttttccaa attcagtgtg ttgactatca gctacagtgc 120
aaccatacaa taaccaaatt ttttactatg ctatctgata aagatgattc catttttgaa 180
tatgtgcaga aattttgaaa ttttgatatg gtttatttca ctttgccttg ttatcatcaa 240
atggaatfff gttgttaact tttgcttgct ggactttttt gttgttaatt cacctaaatg 300
atgtggctta aaccagagag gaagcatttg gacctgttgc acccagagag gaagctatca 360
gaattactaa tgacactaat gcaggtagtt catttggttc ttctttatac agccttgaag 420
aatg 424

<210> 21572
<211> 385
<212> DNA
<213> Glycine max

<400> 21572

agcttcgggc tgctcaattg ctccaggttt ctgcatggaa gggcaaaggt ctgtatgggtg 60
gtcagcagag gaacacaaac cacagaccct tgcgacaggt acaaattttt ggttcaaggc 120
cagctggggt accaagttaa ccaatgcac cagtttgctt tcaagcttct tagtttcaga 180
tgatgcagct gagttttag ttacctcatg cactcctcta atgactatag catcatttct 240
ggcactaaac tgctgggagt tggaagccat cttcttaatt aaatttttgg cttcagcagg 300
agtcatttct ccaagggtc caccactggc agcatctatc atacttctct ccatattact 360
gagtccttca taaaaatatt ggaga 385

<210> 21573
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21573

taatacccaa aatcacatct ataggaccaa ggtcttttat atcaaaatta ctagacaaga 60
 aagacttcat atcatttatg aaatgcatat tactaccaaa tatcaatatg tcatccacat 120
 acaaacataa aatgatgcat ccactatcat caaattgttt cacatacaca cttttatcac 180
 tattattgat ttgaaaacaa tatgaaagaa caacttgatc aaacttttcg tgccattgct 240
 ttggagggtg tttcaaacca tataaagatt taacaagttt gcaaaatttc tttcttttac 300
 ccggttctac aaaaccttca ggttggtcga tataaatttc ttcttttaaa tcaccattta 360
 aaaaaagctg tttttacatc catttgatga attntcaaat taaaaacaca aacaagttaa 420
 attaaaactc t 431

<210> 21574
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 21574

agcttagccc tagaggagat ggaccttttc aggtcgtgga gaggatcaat agcgatgcct 60
 atagttggac ctcccagaag agtatagagt cagcaccact ttgaacattg ctgatttaat 120
 tccttttgca agtggagcta atattgagga ggaggaacta acatattcga ggtcgaatac 180
 tggttaacggg tggaggtgaa gagccctttc tccgtgacaa gggactagta actatagcta 240
 tgatcaggat gcgtggagag gactggtcga acattgttga agaatgcctt atggttctga 300
 tgaacggcac ggcacactgt taagcccatg ggcc 334

<210> 21575
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 21575

tcgtctacag atccctcatg tgagactagg cctaaactat actgcattat tgtaacaaca 60
 taattaagac caaaacttaa cccgcagatc cctcatgtaa ggctaagttt caatcgtgct 120
 tcaatcaagt tctaaggcaa cagtacattt cccaatgcta aagtcaccta actatgaaca 180
 caaatgggtg atcagaccaa aagcatacaa acattagcat tgaaggaagc attgaacaca 240
 gaaaacataa tcaattagat attaggtatt tacatcagtt gttcattaga aatccccaac 300
 taggggtgtt agccagccat taaaagaaa cccaacaat aaatgagatt aaaagcagag 360
 aatgatagtt ccttacataa gaagggggat tctctctct cttcttagca tctcacactc 420
 actctctaata ta 432

<210> 21576
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21576

agctttgctt gtacgatctc ccattttttg atgatgacaa gtgctgaaat gaagatagta 60
 gatacaaata tatacaaata ctccccattc ttttaagctct cttgatttct aagttcttta 120
 attctttctc ccctttggca acatcaaaaa gccaaagtgc ggggaaattt aagacatcta 180
 actcaagcaa tcagtaaaca cgaatgtttc aattagctaa tcaatcttta tttatccaaa 240
 tcactaacat ctaagagacc taattctctc ttaatggcaa agaatgtttc cttaaggaga 300
 agctntgtaa agatatcagc aagctgatgc tttgtatcaa caaattctag aacacaatct 360
 cccttcagaa catg 374

<210> 21577
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 21577

tgaagatgtt cattgtacag tctatcaatc attgtattta ttttgaagaa aaaaatgaac 60
 aagtgttgta acattgtcag tttactggac aaaggaaact tgagctaatt gagtgaatct 120
 taactctact aagttagcaa gtttcattat attcgagctt actatgtaaa aactcattga 180
 gtgattagaa tatattttct atcaaacata tattgtttgt caaagccagg agtggcttgg 240

tgacaaagaa tacttgggtt ttaatctcac ggggagatta agtgtagtgc taagagtggc 300
 ctagagagta cttattgtac gctgtaatgg catagagaat acttcgttgt aatcaaagat 360
 ttgattaatg gaacccttca aggtttaaag gagaactgga tgttggttaga gataa 415

<210> 21578
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 21578

agctttgagc aaatttaa at gacaatcaat ttatacacgg atgtccgggt gagtaccgta 60
 atatatcgag acgctccaaa ttgactactg aaactctgat aaaattcaaa cgacaataac 120
 tttctactgg aatgcccagc agagggctctg aattgatcga gggatgctgc aaattgaaaa 180
 cggaagctcg taccaaattc aaacgacggg aactgtttac tacgatgtct gattgagacc 240
 cgtaatatat cgagacgctt aaaatttata tccgaagctg tgataaaata gacttgacaa 300
 taactttata catggatgtc ctgttgagcc ctgtaatgta tcgagacgct g 351

<210> 21579
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21579

ntaacctcat cgtctctcac agtctttaga tttgggttcc aattcaatcc ttgggtccgg 60
 actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctatg 120
 tcctttcttc acaccgcac acatgccttg cgaactcctt ggagtacctt tgcattgggg 180
 tcaactgaaac cccgtgtaat gaaagggctg atgctttcgt ctaatggcgc tcctctcatg 240
 gggtagccaa gctggcttat ggtgaggaca agattataat ttatacaacc ccttggtccc 300
 attaagggaa catttgga aa tccttcgcat gaagatagaa tcctgattct tccttccttc 360
 tagtgaggga accaattaac agacgccctt ccatgctagc caagagttag tcccaattca 420
 tctttct 427

<210> 21580

<211> 355
 <212> DNA
 <213> Glycine max

<400> 21580

agcttgcaac aaagttctac atattttcat aatgaatata taaataacaa aggctagtaa 60
 aatcttcact atcaatctaa ataaatgagc tatccgtggg ccattaatgc tgagcttgta 120
 atgcttgaac tcgactcatt taaataattg agcctatttc caagcttcac tttgtttatt 180
 taattaaaca aatgagcttg attgagcatt taacaagttg agtttgaata gatcaagaat 240
 agctaagctc atttacctcc ctaaacttat tctatttcgg aatctaaggt gcttatgtgg 300
 cttagcccaa gagcatggta aatgtacatc atatgtggca ctaactttat tagtt 355

<210> 21581
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 21581

attgcaaata ctagaaaggc aagactatct cttaccttag aaatgcgtgc atgcatcaag 60
 catgcttggtg tattacacgc tctacctgca agcgatgcga acgctatcat caaaccgggt 120
 cagatccctc cgtaaatgac tactagagag aatggtagca tctcaaactat gcaaccgctc 180
 aaaattctcg tgctatcggt tacgaggatg tcacccatgc tatactgaga tcacatgtaa 240
 gctctggagc ttgtcttaac gcgggagtag taaaacctaa tgcagggtaa agcactgctc 300
 gtccttccta tcacgacatg ctaaaagccg tggttacatc catgcatga atgccctatt 360
 tatcaacaca ctccagat 378

<210> 21582
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21582

agcttgtaga attcatccca attccagtgt cctatgctga cttgctccca tatctacttg 60
 ataattcaat ggtagccata accctagcca aggttcatca acctccattt ctccgagaat 120
 acgactcgaa cgcaacgtgt gcttgctcac gagaagcccc ggggcgttcc attgagcatg 180

gtagggctct gaagcgtaaa gcgcaaggtc taattgatgc gggctggctg aaatttgagg 240
 agaattgcgt gtaaattcctg acattgacaa gagatgccac acatggggca atcttgaaaag 300
 ctgntgttaa gtgtccctaa tgactcatca gggtttccaa gtttatgcca ttattgtaaa 360
 ccacatctac aatgt 375

<210> 21583
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 21583

tccacaacat ccaagcaaag caacatgcaa acatgtactt gctattacag ccaaacaaaa 60
 cagggcatag gcagaaaact gtgccaaaac accaaccaaa tcacagcttt tctcacttaa 120
 agaccccagt gacaattctt tcgatccaat tcggtaaccg ttggatcgac tccaaaatac 180
 tactggaggt ctatagtaca ttatgtaca ttgtgaccga tgggatctac tagcgaacat 240
 gcagaacgca ttttacatta ctctatccac aaccagcaaa tacatggatt tttctgcaact 300
 ggtgcaaaat tctgctgcg aatcttacag caaaatctgc acaaagagca tatttcgaaa 360
 accacagctt cctcatcta atcttgccca aatcaaatcc tacaagtccc aaatcatgta 420
 tcaatcatg 429

<210> 21584
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 21584

tagcttctta gtttcatatg atgcagatga gtgtgtagct acctcatgca ctctctaat 60
 gactatggca tcatttctgg cactaaactg ctgggagtcg gaagccatct tctcaatcaa 120
 gtttctggct tcagcaggag tcatgtctct aagggtcca ccaactggcag catctatcat 180
 acttctctcc atattactga gtccttcata aaaatattgg agaagaagct actctgaaat 240
 ctgatggatga gggcaacttg cacatagttt tttaaatctc tctcagtatt catataggct 300
 ctctccactg agtagtctaa tacctgagat atccttctctg atggtcgcgg tcctggaagc 360
 acggaaatta ttttctaag 379

<210> 21585
 <211> 426
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21585

ntgatacaca tgcagggttaa gttataaaaag tttttatattt gcacctttgg tttcttaact 60
 attgtattta tgcaattttg gcacctcata ttcaaattat gtgagttagg tcttcttgta 120
 ttataagtgt gtgttttttc tccttcgatt agtcagtcac aaatatttaa tatattttgt 180
 caacgtgata ctagatgatc acatataaat ctcagagaa ttgatgaatt acttgacatg 240
 tatattgttg tgacttaatt acacttttgg tctctttgtt gttccaatat gaagtaccaa 300
 aagaacaaat aagctctgtt agtatatatt agttattgac cagaggataa accatttgtt 360
 tgtgtagtta taggatgatt gtgcattaca taatataatt ctataacaaa caatattcat 420
 attttt 426

<210> 21586
 <211> 358
 <212> DNA
 <213> Glycine max

 <400> 21586

agcttgtatc aaatgtgata tttccaagtc tctattccta aacatcttac tcaatacctt 60
 gaaataaatg cttccacatg actggagaag tcatgtaaga cttacttcat aggataggat 120
 ttaatgtaca tgtgatattt ccaagttcat tgaccaaga cataaaaaat agctattaaa 180
 tgcttaatta tagaaatcga accaatttga tccggacctt gtgtcctaag tgtaggatga 240
 gaaatataat caacctcgtt tgatcatact ggaatgacta ttaaatacat agttatacaa 300
 atcggatcaa tttgtttggg acctagtgtc ctaagtgatt cgattaatgt gaatgata 358

<210> 21587
 <211> 371
 <212> DNA
 <213> Glycine max

 <400> 21587

tcctttaatg aacgcaagtg gtttgggagt gtggtttatg acatgggtga cttgcaagtg 60
aacgtgattg gggaacggaa gaaggtgcac gtgaacgatg tgggagagtg gaaagggttt 120
gtggagacaa agaggggaatc gtgggatctg ttgatggcac actttgttca ggattatgag 180
tcatcacgag ggcagagtag tgatattaag atgttggttt caacacacag gtctgggact 240
gctgctgac aagtttctgc ttttgctgcg cttgtggggg atcatccaat tgccaatttg 300
cgttctcttg atgctcttcc gggtgagtat agttctcgtg ttactgcgtg cgtgcgttgt 360
ttcttcttt c 371

<210> 21588
<211> 365
<212> DNA
<213> Glycine max

<400> 21588

agcttttgta ggtgaaatca ggtgcagcca tttcccttag agtcctctca cggggtggag 60
gttggtgccat gttcttagaa tgtgcaaaat cagaatgctc aaaattataa tgctcaagat 120
caggatgttc aaaatcacca ataacagaat acacatattc accagtaatg gaatgctcag 180
aatgatcaaa aggtataaaa tgatgcctaa ctaatatatg aaatgtccta tctatctcag 240
gatcaaaggg ttgtaagtca gatggattgc ctctagtcac acactacatt cagcatgcac 300
acaactagtt gccttatcat gtaaataaag gtgtaagttt gaactacagc tacccttaaa 360
tgata 365

<210> 21589
<211> 415
<212> DNA
<213> Glycine max

<400> 21589

tggaattcga aaatttgagc cacaattaat gagacactta ctagaaaatt gagttctttg 60
gaccaatctc aatgttttaa acctatcaca aaaatatacc tttttcatta aattggtctt 120
gttttactct agacaaaatt tgcaacaact ttttcgttgg agtccttggtg aaatgaggtc 180
aaattaaggc atatttgtgg catgcaagac gattgcctta ttttgcaaat taggtctagc 240
agtgtgtttt ttccttaatt ttgagctctt atgggtgatct tcctaaaatg gtgtttacag 300

tttattaaac tagagaaaaa atgattttta accatgtata ttagtaaaat tacagagggt 360
atcttcaaac tttaaagggg aaggcaaaac agagtgattg ctagaaggag ctctt 415

<210> 21590
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21590

agcttagccg aattcttata gaattgaagt tggcttagct catccttggc cagcttagcg 60
gaatgaatca gcctaagatg aaggggttag gcgctaagcg cttgagactc atggcttagc 120
gcatgaataa tgatgcgctt agtgtgagac ttgcgcttag cgaaaggagt atttttttat 180
aaaatatttt ctgagttatt tttcagtcct tttccaaga aattgaaacc cttatgttta 240
acattcaaag ataggctaata atactcctat gtacagatta tgcagcaagt tcccaatgat 300
ctaattgcatg aaaacaaaaa ctacagaaat taaaactggg ttgcctccca ngaagcgctt 360
ctttaacgtc attagcttgg acaattt 387

<210> 21591
<211> 430
<212> DNA
<213> Glycine max

<400> 21591

tcttattttc agcagatgaa gatgaatccg tggccacatc attgacttct ctaaggacaa 60
taacatcatt tcttgactg aattgttggg agttggaagc catcttctca attagattcc 120
tagcctcagc aggagtcata tcaccaagag ctccaccact ggcagcatca atcatactcc 180
tctccatggt gctaagtccc tcatagaaat attgcagaag gagttgctca gaaatctggt 240
ggtgaggaca gcttgacac aatttcttga atctttccca gtactcatac aagctctttc 300
cactaagttg cctgatgcct gaaatgtctt ttctgatggc agtggtccta gatgcaggga 360
agaatttctc caagaacacc cttttaaggt catcccaact ggtaatggat ctgggagcaa 420
ggtagtaciaa 430

<210> 21592
<211> 381

<212> DNA
<213> Glycine max

<400> 21592

agcttttaggc tattctattg cttcagattg ttgcacaaaa gggcaaaggt ctgtgtggtg 60
gtcggcagag gagaataaac cacaaagtct ggcgacaggt gcagattttt ttattcatgg 120
ctagtgggtg taccagggtta accaagacat ctagtttacc ttcaagcttc ttagtctcac 180
ctgatgaatt tgtggctact tcatgcattc ctctaataac aatagcatca cttctggcac 240
taaattgttg ggagtttgaa gccatcttct cgattaaatt tctggcttca gcaggggtca 300
tgtctccaag ggctccacca ctggcagcat ctatcatact tctctccatg ttgctgagtc 360
cttcataaaa atattggaga a 381

<210> 21593
<211> 430
<212> DNA
<213> Glycine max

<400> 21593

tggcctgaaa cttgctaata atatgctgcc acacagacct gtttttagag ctgaccccta 60
caggaattcc aaggtaagaa aagggaatt ccagttgact gcagttgaga gaaaaagctg 120
cctccctaca ccagccttcc gatttaccca gacacccgaa ttggctctta ttgtagttta 180
tcttttagacc agaaaccaat tcaaagcatt tcaggatata ctgtaaaact ctaacattat 240
cattagcggc agccccagag aacaagggtg cgaatgcata atactgtata ttaacttctt 300
ctattttctt tcccacttga tagttgctga agagatcttt tgctactgct gatctcatca 360
acccggtgag gccttcact actatattga atagcaaagg tgcaagggtg tcaccttgcc 420
ttaagcctct 430

<210> 21594
<211> 388
<212> DNA
<213> Glycine max

<400> 21594

agcttctcct tccttttttt atacatattt gaaagagggg agaacaaaaa tgttcaaccc 60
tcctgggtatc tgagattcac ttaaaattag tgagaaaaat tgcttccgtg aagaaaatcc 120

aagccgaggg gcttccgtaa cgatgccgtg ggtgatttcg cgaagatttg caaccgttct 180
 tcgtcattct tcgtgcgttc ttcacgttc ttcagtcctc aaccggtaag ctctgaaat 240
 cgaacttttc aatacatcct atgtaccctt agtggctctc atttgattca cgtgctttta 300
 tttccatttc attcactttc cgtactccct tgtgacgtgc tttagtcatt gattgaagtc 360
 attttctcgc ctaataaaaa ataaaata 388

<210> 21595
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 21595

tccatcaggg aaactcgata ttagccaagt aattatattg gtgcggtgga tactgatata 60
 tgggggttga aggggtctgt ggggagcttg gccatgtggg tactgcagtc ccgatgtggg 120
 cgtctctctc ctttttcttt gctccacctg cccaagcct cctattgcta gaactcgtca 180
 aagcagcata atcaaatttt ccccttaggc ccacctcgat cctctcgcct gcaaactacta 240
 gacctgcaaa actcaaaggc atgtatccca ccatcttctc atagtagtac acaggtaatg 300
 tgtctactat cattgttacc atttcccttt acatgattgg ggggtactac ttaacccaac 360
 aaatccctcc atctctagga gtattctctg aaagattcct actccctttt acacatgtgt 420
 ctgcag 426

<210> 21596
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 21596

agcttggttaa aacatattta attaagtctc atgatgcaca tttataagac actagaagaa 60
 ctattgtaat tgaaaactag acatgtattg atgtaaatct aattatgtat gcatgtacat 120
 gttatatgat agatgtagct tcataatgga aaaacatttt ggtgggttgat atgttggttca 180
 ttttcttggg gtaagttgcc actattataa gaaaaagcgg cacaaccact aaacagggaa 240
 gcatcacttt ccaatagcat atggcagaaa taaaaactcc aacaatggaa gttgcacaac 300
 ttgagttgaa gtgacctaaa tgtgagtacg aaaggtgatt gaggaaggt gaaactcgta 360

gccaaaaaag agattgcatc at

382

<210> 21597
<211> 395
<212> DNA
<213> Glycine max

<400> 21597

ctaacctcat tgtctctcac agtctttaga taagggatcc ttttcaatcc ttgagtccgg 60
actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120
tcctttcttc atgctgcac ccattgccttg cgaactactt ggagtaccct tgcgtagtag 180
acactgaaac cccgtgcgat gaaaggcgtg atgctttcat ctgatggcac tcctctcatg 240
gggtaaccat gctgtcttat ggcgaggacg ggattataac taatacaacc gctgtgtccc 300
aacaagggaa cattaggaca tccttcgcat gaagataaaa tcctgattct tgcttccttc 360
tagcgaggga accaattaac tgacgccct ccatg 395

<210> 21598
<211> 387
<212> DNA
<213> Glycine max

<400> 21598

agcttggtta tgaaattgcg catgcactta tttctgccc tgagtcatga atagttgatt 60
ggatctaata aaaatatggc tgatgacttg ctattcagg ttgcagtta tgctttaatg 120
aaagctgcac ttgatttga gatattgctt tcacatgaac ggctaaatga attttcccct 180
gttaaaaaga tgtaagcttt tacccttttc tcttgcatc ttataacata attttgggac 240
attgcttttc ttatctatag taacattgac atatatatgc aagatgtaac gagttaggct 300
tttatcaacc ctataattgg aagaaatagt tgtgcatcat attatattat atttactact 360
tccacttgat ccttacaagt aatgact 387

<210> 21599
<211> 398
<212> DNA
<213> Glycine max

<400> 21599

ttgaattgaa ggcaaagaac gatcacacac tctccctttc tttttcatct attctttccg 60
 tgagtttctt cttaaaaccc attacaaatt tatctacatc caataaattc atagtttact 120
 gtcaaaacta cttttgtttt tatctctaga ggatgttttt tctctgctga aatatgtgca 180
 tccaaactgt tcttccctt tcataatcat tgaaagctaa agcatcgtga ttcattttat 240
 gcttggattt gcgctcttct tgtcctgggt ttcctatgca gctgttttac aatgctaatt 300
 gtttgcgtaa gtttgaatgg caagtgcga tgatgcagta tacattgcaa tgatattaca 360
 cgctcgggca agaaacatta ttcataatgt gaggtgca 398

<210> 21600
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 21600

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 ccatgagagg ctggatcaaa tggagaatag agatcatact gaagaacaaa ggacgagaag 120
 agggaatgat ggtgttccta gacaaaaccg aattgatggt attaaactca acattcctcc 180
 atttaaagga aagaatgatc cggaggccta cttggagtgg gagatgaaaa tagagcatgt 240
 tttctcatgc cacagctatg acgaggacca gaacgtgaag cttgccgcca cggagttttc 300
 cgactatgct cttgtgtggc ggaacaagct acaaatagag agagcaagaa tgaagagcct 360
 tggttgatca tgga 374

<210> 21601
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21601

tttcgattca ttctatgtac ccgtagtggt ccacnatttg tttcgtgcat gactattctc 60
 gttttgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtccttt 120
 ctcgcttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccatta 180
 acttcgggta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240

agaggtaaaa aaaataatat aataataatc aaaaaacatc ctttagtaaa ataaagcgga 300
 aaatcaatcg gacatttttt ctttgggatt tctcattctt aatcgaattg attaataact 360
 aaagtgaaac taaggctaaa atcaactcgc ctagtcaagc tc 402

<210> 21602
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21602

agctttaacc tcattgtctc tcacagtctt tagattgggg agccaatcca atccttgtgt 60
 ccggactctc atccacttat gatagcgacc gatgatccca ttactgcttc ccctaagctc 120
 tctgtccttt cttcatgccc catcccgctc cttgcgaact ccttgagta ccttagcatt 180
 ggggtcactg aaaccccgctg taatgaaagg cgtgatgctt tcgtctaata gcgctcctcg 240
 tatggggtag ccaagctgtc ttatggcgag gacgggatta taatgaatac aaccccatgt 300
 tcccatccag ggaacattng gatatccttc gcatgaagat acaatcctga ttcttccttc 360
 ttctagcg 368

<210> 21603
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21603

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 gttttccacc atggagatgc agcgggaagac aaaggagaag aggggagagg aggcgccatc 120
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttggaagg atgcttcaat ggaggaaaag aaagagggag agaaagagag aggggggagc 240
 acgaaattga aggaataaag gagggagaga agtggaactt tgaaagatgt ctcaagac 300
 tctcattcat catagttaca acaagtgtta cacatgcttc tatttataga ctangtagct 360
 tccttgagaa gctntcttga gaaaacttcc ttgagaagct tctttgagaa aacttcctta 420
 agaagctag 429

<210> 21604
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 21604

agctatagcc aattcaaacg acaataaactt tttactcgga tgtctgattg agactcgtaa 60
 tataacgaga tgctcgaagt taaatgttta agctctgagc caattcaaac gacaataact 120
 ttttactcgg atgtctgatt gagtctgtc atatatcgag acactcgaaa ttgaatgttg 180
 aagctctgag ccaattcaaa cgacaataac tttttactcg gatgtgtgat tgagtcccg 240
 catatatcga gacgctcaaa attgaatgtt gaagctctga gccaatcaaa acgacaataa 300
 ctttttactc ggatgtctga ttgagtcttg taatatatcg agacgctcga aattgaatgt 360
 tgaacctctg a 371

<210> 21605
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 21605

taaacattca acttcgagcg tctcgatata tttcgattct caatcaaaca tccgagaaaa 60
 aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120
 atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180
 cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
 caaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcggt 300
 atatcacggg actcaatcag acatccgagt ataaagttat tgctgtttga attgtctcag 360
 accttcaaca ttcaattttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420
 taaaa 425

<210> 21606
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21606

agcttgacaa agaaatataa attgtttgag ctagatgtcc atctgcgcaa aaattacact 60
atgcattgag tcccaatgta atttgtctat gtgtgagtga actctctaca aggttcactc 120
ttagtacaca tatcccaagg gagtttagca cactaatcta gaaagttatc atactaatct 180
agaagatcag aataagattt accagtttta gcaaaaacag tttttatcat tttttggaaa 240
aatttgactn tatectttta tagttagttt tggaaaagtg taagaagtca tataaggcat 300
ggctgagctt gtggagagca cctcaaggga tatccaagct atcaattagt catattaatg 360
gttattcaaa gtgctta 377

<210> 21607
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21607

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tgcccatggt ggcttggttag acgattaggg ctcggttttg tgacccttcg tccacgttta 120
tgacttgagt tccttcaact gctgtggggg gaggcattggc aggcctcccg atgggaggat 180
acggtgctac cttcaggctc tctatataga attatcgtgc ttgcttttgg ttagccttga 240
cagttacaat ctcccttgtc agtgtaggga atttcatttt caaatggggg gtggagacta 300
tggtttcaag cttgtcaagt gtctttctgt tgattaaggc aaagtatgat gtgtctgcgt 360
taaccagtag atatctgaag ctctagaaa acttaccctg atcgaagggt gtcacatcaagt 420
ccac 424

<210> 21608
<211> 376
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21608

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gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaattttatg 120
caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaattttt atgggtcatgt 180

gatgctaggg ctgangattc atttctctta ttttaaatac acccaatgtt tccaaaatat 240
 gttcttttat caatttgtgc attcatccga gtccatttcg ggcgtccggg gaaaacttca 300
 cagcattcac ccttcaggtg tatacacatt cttttcaaaa actagttatg atcaatgaat 360
 tcttttcaaa gaaaag 376

<210> 21609
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21609

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 tcttaagaag ggggggttga attaagatat tccaaactgt ttcccctaataaaaaatcta 120
 tttttctttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180
 aatgaagcaa cttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag 240
 aaaatgcaaa ctcagtttta tactggttcg gccacacct tgtgcctacg tccagtcctc 300
 aagcaaccgg cttgagagtt acactaactn gtaaattcct ttacaagtt ctaaacacac 360
 aaggacaacc cttcctttgt gtttagagat cttttacaac aagagactca cagtctctta 420
 atccctt 427

<210> 21610
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 21610

agcttgagat gaggaagtgt tgaaggggtga aacttcctgc ttttattgtt gaccacagag 60
 tgggtacctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaatacat gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
 caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttctgtataa tatgtggatt 300
 gtggcctctg gtaatcgatt actgaggggtg ggtaatcgat ta 342

<210> 21611
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21611

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 ctaattttgt gtttttaatt taattttagg agaattttta gcaattgggc ttgaatctgg 120
 aattgggctt gaacttgaag agagcagaca attttatttt atcaaattctt atcttatcta 180
 gatttttatt catccaatct tatcttatct tgtccagatt ttatttcata caatcttata 240
 ttatcttgct cagattttat tttatttcgt ttatgggctt ggacttaaaa cagatttgta 300
 agctttgggg ctgagaacct atataacagc accaagggtt tagttttagg gagttttcga 360
 agaggagaat aattctagga ttttagaatt ccagttgtta ctgttcatgc gcactgt 417

<210> 21612
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 21612

ttcatgcaag cttatgcaac ctcgataatg aaaaaagtag tgtttttttt gtttctatga 60
 caaaagccat aaatactaca tatgaaatgt ggattattat atctatctat cttttaaaaa 120
 atttaaatta ttttaattaaa tttgatttta gaaggacta tcgaaataaa atagttccgg 180
 gtagtttagca ttatcttggc aaatcatcaa tgatgatgct ttttatgtca ctctcataaa 240
 cgaaccactt tggctacttg gctacttggc cacttagcca atagccatca ctgaattcaa 300
 aagattgatg tcagcaatcg tacagctttg aaatgcatat gctcgtctta atcttaaaac 360
 tgaatacaaa gcctc 375

<210> 21613
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 21613

tcgaggaatc ccatgtattt taaccacccat gtcgactatc aaggatgccca ccatatgagc 60

agtgtgagac gttggtaaca ttcccagatg aatcccccttc gaaaaacggt ccaccaccac 120
 gagaattgtg gtttttcgtg atacgccggc aggccgacaa tgaaatctaa cgagaggtcc 180
 tcccaaggtc gatggggcac cggtaagggg cataatagtc ctgcgacgcg ttgtgtctgg 240
 tacttagtga cctgacaatc catgcaattt gccacaaatt gcttgacatc ttctctgaga 300
 ccgggtccaag tgaagttctc tgaaattcga gctaattgtct ttgtgattcc ggcgtgaccc 360
 cctgttggag tcgtgtggta ttctgaagt aatg 394

<210> 21614
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 21614

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 atatatcgag acgctcaaaa ttgaacagtg gaagctattg agcaattcaa atggtcataa 120
 ctgttcactc ggatgtccga ttcaggcaca taatatatcg agacgcccg aattgaacaa 180
 cggaagcttt tgagaaattc aaatgggtcat ttctttacac tcggaggtcc gatcaggcgc 240
 atcacatata gagacgctcg aaattgaaca acggaagctc ttgagaaatt caaatgggca 300
 ttacttttca cttggaggtg cgaattatgc gtataatata tcgagacgct cgaaattgat 360
 a 361

<210> 21615
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 21615

tcaacctaga ggagacggac cattccaagt gttggagaag atcaacgaca atgcctacaa 60
 gattgacttg cctagtgagt ataattgtaag tgccactttc aatgtgtctg gtctatctct 120
 ttttgatgca gatggaggag ccttggattt gaggacaaat ccttttcaag aaggagggag 180
 tgatgaggac atttgataaa atttggtgag agtttctctc tgggttcctt gttgaaccaa 240
 ttatcagact tatcaaggta atccttgtgg cgtctaccca gacttatctt ccttcattgg 300
 aagtggcgtc tacccggact tatcttcctt caccggaagt ggcgtctacc cagacttatc 360

ttccttcaact ggaagtggcg tctaccctga cttatcttcc ttcactggaa gtggcgatcat 420
ccaaatcttc g 431

<210> 21616
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21616

agcttgaaac tggactgcaa gtcattgatcc agcaagcaaa taaatactgc aaaatcattc 60
atatatgcgc agtgataaaa atgaacatca gatacgetta tcacagagtc gttcccaaga 120
agttactggg ctgactttat gtttgtgttt ttccccggat aattttctgat tgcagcagaa 180
acacaacaaa gataccaacg gaattaatca catcagaatc acctctacac aaatatataa 240
tcccagcaga aacaaaatcc gtagctgtta tattgtttga gcccctaaac aagttagctt 300
aaagtagttt aaatatatttg ctggctttat ttgtgtaatt ntaatttaat tctacatggc 360
actgtggcat ttgatttctc ccttgc 386

<210> 21617
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21617

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taaaactgat tttgtgtata tgccattatg aataataact ttctgaagac aatcaaacia 120
aaagcaactc tgaatgtaaa ctagagaaac tagagagttt aggcattacc atggaaggaa 180
gcgcattcat atgtcaccat cccagttgc acaacatgca ccaacttcat caatggcata 240
tgctgaggat ccagcaatgg gaccatctcc tactctgtaa tcaatgaaaa agattcaaag 300
aaaacctaata tataaaatgc atcaatagaa catacaaagg atgattgata gatgctgcat 360
taacaatgtg tgggtgtatat ctgagcatat gtacttggga attgataagg caatttgtga 420
acggctaaat 430

<210> 21618
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 21618

agcttttgtt ttcaatttcg accatcttta tatattacca gactcatccg gacttccgta 60
 tataaactta ttgtcaatta aattttctca gagctttgga tcaaaatttt gagcgtctcg 120
 atatattacg ggattcattc agacatccga gtaaaaaatt attgtcgta gaatttgata 180
 cgagcttccg ttttcaattt ggagcatctc tcgctaaatt gcgataggct atcgggcatc 240
 cgagaaaaaa gttattgacg tttcatatct ctaagagttg acgctttcaa tttggagcgt 300
 ctcaatatat tacgggactc aaccggacat ccgagtataa aggtattgtc atttcaattt 360
 gctcagagct tctagtctca aatgtgagc 389

<210> 21619
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21619

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 atcgagatgc tcaaaattga gactagaagc tctgagcaaa tttaaattgac aataacttta 120
 tacacagata tccggttgag tcccgtgaaga tatcgagacg ctcaaaattt agatccgaag 180
 ctctgagaaa attgaattga caataacttt atacacggat gtccggatga gtcctgtaat 240
 atatcgagac gctgcaaatt gaaaacggaa gctcgtagga aattcaaacg acaataactc 300
 tttactcgga tgtgcgattg aatcgggtaa tatatcgaga cgatctaaat tgagactaga 360
 agctctgagc acatggagat gacaataact ttatacacgg atg 403

<210> 21620
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21620

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ggtgactttc caccatggag atgcatcgga agacaaagga aaggacgtgg gaggaggcac 120
 catccattaa ggaataagcc atggaagaag gagcttgacc accaagataa gccttgata 180
 acaagcttgg agaggatgct tcaatggagg ataagaaaga gggagagaaa gagggagggg 240
 ggagcacaaa attgaaggaa gaaaaagga gagaagtga actttgagtt gtgtctcaca 300
 agactctcat tcatccaagt tacaacaagt gttacacatg cttgtattta tagactangt 360
 agcttccttg agaagattct tga 383

<210> 21621
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 21621

tctaacctgc gaaattcttt tcaagcgttg ttggctctgg attatgaaga gacagtgcaa 60
 ggattcatag ataaattcga gaagtgagtt gaaatgggta aggggttgga ggagccattt 120
 ctgatgaaag tgttcctcaa ggggttaaag gaagagatta gcactgaggt aaagcttcat 180
 gaaccaaaga acttgattaa agcaatgggt aaggctcata gagtggagga taagaacaga 240
 gttttaggga agttaccctt gagtaatagc caggggtata atctgcagaa acctagttat 300
 tccggtcaaa aatttgtaag ggagtgcga ccaacaaata gtaaggtagt tgatcctact 360
 aatgctgcta aaacaagatc cgatggatgg caaggtagaa gaaccttcca taatttgta 420
 cccgcgga 428

<210> 21622
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 21622

agcttctact tatgtgtag ggcgggcttc cttcactttc ttgtctcaa cgcgagctct 60
 aaccactgtt cttccttccc acgatgcttc tttcatgtc cgcttgagtg ggcttatagc 120
 ctaagccata cttccacga tttccttggg tttttatcaa gctagttatg tcgccgttgt 180
 ctttgcttaa acccatcccg gggtcataac cgttcccaa cataactcgg gccatcatta 240
 ccgctgcac ggacagacaa ggctgccaa agaggagtc cacggaggaa atgctgacca 300

cctcaaaaga ctggaaagca gtttctaacg attcttctgt ggcttccaca taaggcatgg 360
 aggatgggca gcttaccaag atatct 386

<210> 21623
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21623

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 gtgtagatga aacaatcatt cagatgcttc ctccccgaca gagaatgggt tctccttggg 120
 gcataatcat ttggaaaagt agagaaactg tatatgctca tacacctttc tctactccct 180
 tagatttact atagttgatg ggtcttctat gtacatccaa tgttgttctt cattngatc 240
 actctaagtc tgacgtgtga aaatgcaagt aaccactaa aagggggaga ggggttgaat 300
 aatgtgtata tcanagataa caactttttg cgatacaaga atagtatgga taatacaaaag 360

<210> 21624
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 21624

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 cgtcctttgt cacgggaagc cggaaggctc atatcacctt cttaattgta cacatggggc 120
 actgcgcccc caaatgcgcy agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatatcct 240
 gcatttgtcc gttatcatat tccagctca ctttttgcac gagtcatggc atcatcatgc 300
 atatgcgtcc aacaaacttt ttgatc 326

<210> 21625
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 21625

tgtctcagcg tctatgagac acagagacca acatgtttgc tatcatcgcc aagtacgaag 60
aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120
atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggagcg gtttgccttt accttgaacg ggagtcaaga acttccccga ttgttagcca 240
aggccaaggc gatggcagac acctactcca cccccgaaga gattcacggg cttctcggct 300
attgtcagca tatgatagac ttaattggccc acataattag aaatcgttag gaaacttgta 360
tgggtctctca gaccttgact agatatgact tcctttctga aataaaatga gttggtccca 420
ggtttct 427

<210> 21626
<211> 195
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21626

acctgtttgc atgcatgctt gcatggaagt ttgcgatccc nggggatatg acagtgggga 60
tcgttgtagg cagaagcacc aaccgcggcg ttgactactt gacgcaaag agacgacgag 120
ttacctgagg gatgcacgtt cacttttaggc cagcacaag cagaagctag aatagggcaa 180
atgcgcctca ttatc 195

<210> 21627
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21627

tgtaagttag gtttcaaggc tgggtgtaga ccattctttt ggttttttat ggnncgattt 60
taaaggggta ttatggggga caactactag ctgcagttgg acaagatgca aacaaccata 120
actactgtat tgcttatgca attgtggatg ctgagaataa agacaactgg agatgatttc 180
tcacactact gaggcaagat ttgggagact gtaggcagca tgggtggaat cttatgagt 240
acatgcagaa ggcacgtgcc ctagttcatt gtactattat gagtctttat atgttctttg 300
aaggaccata ctgacagtaa gtgaaatctt tcaaggacta atcgttgctg ttcatgaagt 360

attcccaaatt gcacctcata cgtactgagc tatg

394

<210> 21628
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21628

agcttctcgg ctcatgctgg gaacgcctct agttcaacac ccgtgcagcc tanagcacc 60
accagaggg aagctcccca agttccaact ccgaacatga ctgcaccggc cggtaattcc 120
aacacgacaa ggaacttccc tccgaggcca ttgccggaat tcaccccgct cccaatgacg 180
tacgaagatc ttctaccatc cctcatcgcc aatcatttgg ccgtggtaac tcccggaagg 240
gtcctcgaac cccctttccc gaagtgggtat gaccctaata caacttgcaa gtaccatggg 300
gggtgtcccg ngcattctgt cgaanaatgc ttggccctta aatacaaggg tccaacatta 360
atggatgccg gat 373

<210> 21629
<211> 419
<212> DNA
<213> Glycine max
<400> 21629

ttgacttgag tcatcaagag attataaata tgtgactttg gcatgaattt aattaataat 60
ttatctttca atcttttttc atcatctctc aacatctttg aactctttct acagaatttt 120
ctgattcatt tctcttcac tttcttaaag tttttgttca atactttttc tttgaagaaa 180
agttctttga tcaaaaactt gtgttattca tctttttcat tctcttctcc ctttgccaaa 240
agaacagaag gactaaccgc ctaaattctt ttgtgtctct cttctccctt ttccaaaaga 300
atagaaggac taaccacctg aattcttttg tgtctctctt ctcccttaca aaagattcac 360
aggactaacc gcctaagaat tcttttgatt cttccctttc ccttaagcaa aagatttca 419

<210> 21630
<211> 334
<212> DNA
<213> Glycine max
<400> 21630

agcttttgctg attttttttt catccgcgac agaatcgaac tgggtataag aagaggcaaa 60
 tttgataatg ctgattgcat gaatgggaag cctgtggcat atggagagaa tgagaagaag 120
 gaggaacca tgctatgact atcattccca catggccaaa tttcccacca tatcagcaat 180
 accgatactc agccaatatt aacccttctc attaccacc accctatcag ccaagaacac 240
 ccaatcgtec acaaaggcca cccctaaatc agccactaag cctgcctgac acacatctaa 300
 taccaaacgc cacctttaac acaaaccata acac 334

<210> 21631
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21631

tttcgcaaag cttacggtaa aatctgggat ctagccttgg tattagtctt cacataggcc 60
 attgcctccc tcaccagta ttatgatcag ccgtagaggt gcttcacctt tggggacttc 120
 tagctatcac ccatggagga agaatttgaa gagatcctag gatgccctct aggggggagg 180
 aaaccatacc tcttcacagg gttctatccc ttattagcta gaatttccaa gatagtccaa 240
 atctcagcgc aggaattaga gcacaggaag caagtcgaaa atgggggtgg tgggaataccg 300
 agaaaatatt tggaggcaaa agcaagaatc ttggcaggta aaggcgagtg ggccccgttc 360
 atagatatcc tcgcactgtt gattntcgga ggagtcctct ntctgaatgt ggatgggttg 420
 gtg 423

<210> 21632
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 21632

tatcttgcac gtggaatttc taaagcccca ctccatcata aagagtagta cctgacatct 60
 tgcacaaacg aatttaacgt tacttgacaa ttatagctgc tgtgtgaata ccttaccac 120
 tcaagagtat gacacaatga tggctgctct ctaatgaaac actcttgcct tttaccactc 180
 taattgcctt tgagttctta tgcaattcac gagagtatgg acacatca 228

<210> 21633
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21633

ntacagcaga ttntagtaat gaccactaa cctagtttta aaataactta atgccattaa 60
 cctagggaat taaaaaaaaac ttaatggctg agtgtaactg aaattgtggc aacaaaaagt 120
 ccccccaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctaggt 180
 tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240
 aacccaaaac atatttttgg tcagccaact ttacaaggat tggggcatta tttagacaaa 300
 ctaaactc taaaattgag acaaagtggg gtcatttagt cctcctccat ttggggcatg 360
 atacaactca caaccttga ctcttctcct tgaaacttgg gcttgtattc aaatagtatg 420
 gacag 425

<210> 21634
 <211> 366
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21634

agtctttcca accaaattta ttaatacatt ctcaattgat aaaagcttat tgaacaagtg 60
 ctgagttaaa ctattttacc caaatgtgct tagtctttta gttgtgggtt tcactttcac 120
 tttagcacac acacaaaaag aagcaagaat aggccaataa tgtctcatta tcttgttcaa 180
 ttcgtgcaat aagaggttaa attcatctta agatgcaa ataacctcag gtagcatgac 240
 tttgtcgaca tatatcatat atcaacagat tcaattacag tggaaatttt caggcaatat 300
 tntatgatat taaatntatg gtcttgctg aactacaaat attgtcccat ctttaaccac 360
 tctttc 366

<210> 21635
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 21635

taaaatttga tatctaacaa gcttcatact taaaactttt tttatctatt aaaccaacat 60

ttaatcattt ccttagaatt acaagtaaaa accctaatag aaaaactctg taacacacta 120

tattccacca ggactcaatt atcgaataat aattaaataa tatctgcaaa ataagtttaa 180

aattataaaa ataattatta acaaaaagca tctaaagtta atacaaataa aataattata 240

attgaccaat gccagtgttc tttgttttct tgttttagcaa gaaaaaatga taggatgggt 300

tatttttcag gaagcatagt ccaacttacg ttaagccagt ccctgatata tcaaattcca 360

aatgtatgca agaacgggtca gactcgggtt tgtgaagctc cctttgtaca gcaacattca 420

cc 422

<210> 21636

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21636

agcttgctta agcatggcat cgcttaaacy agctaagtca atgagtagct atgggattat 60

tggaggtact cgcttaagcg tcatattttg tgcgcttaag tgaggagagt ccgcaactga 120

gaaatttagg actagtggac ctgcgttaag tgagctttta ctcatgctta agcgagctag 180

gtagtacgt taggccaag cccacatcaa aatataaaaa ctagggcgcc ataaatgagg 240

ggattcagag cgttttggaa aacaactttc tctgtgagag agaaccattt ttagggctct 300

tagctntaaa tctttatata cnttttatgt ttgggtttga ttattataat caagcaacta 360

atc 363

<210> 21637

<211> 418

<212> DNA

<213> Glycine max

<400> 21637

ttgttgaatc tccatgggat ggttcagggt atgcctctct ctacactgt tgaatgtgag 60

agagttaatt gaaggggtgc atcgaggttc taataacatt atattggggg tttgtgaatt 120

tgagttgatg gggttacgaa aatttggtga tagtattttg ggattttagg tgtgactgaa 180

atgatgattt ggtgttcag ttgcagggaa ggggtgtgga gtgagtgtgt gagagagagg 240
 tttgattcct ttgcttttag aaaatctgcc caattggaaa ggggttaaag ggaaagttga 300
 ggactacatt gagcactaca ttagcctgtc aatataacta atgatggtta agaataatgt 360
 ttgtttgttt ttttttttaa cttataaaat taaactacat tagcctgaca atagacaa 418

<210> 21638
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 21638

ctctttaacc aacggttgat ggaccatttc aagaccttga aagaatcaca tgacgatgct 60
 taaaaagctg atcggaccgg gctgaataat gctattttca cctaaagtgc ctatgattta 120
 actgtgggtg atacatacgg tgtatccac tcgcggacag atccttatta agagggagag 180
 agtgaagaat acttgttcat gagcgcgggc agagagccac ttgatcgact gatgcgaacc 240
 atgactcagg ctacatcaat gtgtgcccac gtatcttata tac 283

<210> 21639
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 21639

tctggaggaa gcctcttaat gaagcttctc gagaattcta cttgcagctt ttctcagcaa 60
 aatcgctgcc catccttcgt ttaccgaggg atcttctcga aatccggata gcaacttcac 120
 aatacactcg atcatgatct gaccgttggg atctttgaga agatgtctgg agtgtgctaa 180
 atgcttccga taccgagagc atctcttatt caagcatgcc tactctgtgc tttcgagtag 240
 cttaagaata acggaactac gccttcgttc tttgttgcca tgccattcct gaagtaacga 300
 taagatggtc cattatccac gaacgccatt acacctcacg aaccgtcggg gcttgacaca 360
 tcgaaaggaa cccgtctgcc gtagcgga 388

<210> 21640
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 21640

agcttttctt ggtgggttga tgtactctat cacataggat agcatgatca ctaacagaca 60
tattttcaat caattcagtt tctcttcag gggttttcag ctttatcttc cctcctgctg 120
aagcatctaa caactgcttg gtttgcggtc tcagcccatc tataaacatg ttcaattgaa 180
ttggctcaaa gaatccatga gtgggagtct ttcttaacaa accccgaaat ctctccaatg 240
cttcactcaa tgactcatca gggaactggt ggaatgatga aataacaaca ttcccttctg 300
cagtctttga ctcgaggaag tatttcttca taaatttctc aacaacttcc tcccatgtct 360
taagactggt gcctttgaat gaat 384

<210> 21641

<211> 426

<212> DNA

<213> Glycine max

<400> 21641

ttgtgtaacc gattacattg atttggtaat cgattattag tgattgtttc tgaataaaat 60
caaaagatgt aactcttcaa atagtttttg actttttcaa attgggtttt aagtttttct 120
aaaagtcata actcttctaa tggttgtctt gaccagacat gaagagtcta taaaagcaag 180
gctttgtttt tcatttcaag tatcttgaac acttattcat acaatccttt acaagccttg 240
aatctctttg aacttcttct tcttctttgt accaaaagct ttccaaagtt ttctgggttt 300
ctaaaccttg aaaacttggt ctattcatct ttccattccc ttctccctct gccaaaaaga 360
attcgctaag gactaaccgc ctgaattctt tctgtgtctc tcttatccct ttccaaaag 420
aacaaa 426

<210> 21642

<211> 368

<212> DNA

<213> Glycine max

<400> 21642

cagcatcttt tgtttcactt agcatcgcca tcttagctat atgcttgtgt cgctgcatat 60
catcggatgc cttatcacia gcgccaaatt agtgcctca ggtttcgaga gttcaagcct 120
gttaaactct tggacttgcc atcactatca agctgacatt tacttatgct gacacaagct 180

gagccttctt gcttagacga atccgacgaa gagttatcac tattaggggg ccgcaatgga 240
 tgggaaacag aacgttctac ataacacctt tccctatgag agaaaaccgt gacctgcctc 300
 ttatattata attctgatat acattctacg ttaggctaag atcttctaata taatgcacta 360
 ttatcctt 368

<210> 21643
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 21643

ctgtgcctaa actacatgtg agaactcctc ttgagtgcac gccttggatt tgagtaacat 60
 aatatgctta ggattatatt acaagcagaa ctgaatggat gatataattga accactgaca 120
 agtcttttac actgatctaa tcatgcgtta gacacatatt gtaaaatgag atcgactatg 180
 ataacaacta ctggaatact gtgataagaa catgatgtaa tgggtagata gaaaagccgt 240
 agactgacaa atgatcaaca ttgaactgaa cttaatcctt ggcttagagg gcatgtggtg 300
 atgattcatt catctatgca agggccata 329

<210> 21644
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 21644

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 aagcgcaatt ccttacggcc ttaattgagg tccatgacgc taagcgccag tcatggcagc 120
 taagcgagat tctttgcagc aatatgagcg ctaagcgagt acctctcagc taagcgcgctg 180
 ctctctgtga ctttaagatgc atcatttttag ctacattggc tagggccagg cttagcgaga 240
 gttgcagctt ttctaactctg caagtctcgc taagcggacg tactcttgtg ctatgccgag 300
 tttctgttca aaaaaaaaaat tcaaatttga aacgtcggct aagcgcacgt gtctgctaag 360
 tgagcct 367

<210> 21645
 <211> 428

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21645

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atagatgcaa ccttcatttt tttgctgtctt cggctagaag caccagccta tttctcccag 120
aaattctatt agaaataaag attgacaata aagaagtaga acaaaatgac aaggtagata 180
ttaataccta agttaaaagga agattatgga caaaggattt ttttagcagcc acatatttgt 240
tagctctctt gaaagttaaa gtttgctctg gagaagggtc ctcttctata ttttccaagt 300
caatcgtctc aactcgatgt ttagccatca aggaaaatgt tagtagaata acaacgggta 360
aataagatac caaaagataa agctctacag aggaacttgt ttgaggagtt ggagaattac 420
tggtgatt 428

<210> 21646
<211> 371
<212> DNA
<213> Glycine max

<400> 21646

agcttatttt tgacaaaatt gaatttcttt ttcttatctt tgtagggact actcacaaaa 60
tccatttaca tttcttttagt gtcctatagg ccatgcacaa ggtagataag tcaaggaaac 120
acataaatcc aaaaataaagc cacaattgtc aattaagctc aatcatttgc ctaagaccaa 180
aactaaatta aagtgagaaa ataagagaca aaaagagggtc taatcagata agaagaatag 240
aaaaatacta aactacagat gctcaatctc tcccttcctt tccctctcaa atcgttcgat 300
atccaccgag ttaacttagt ttgttaaggt actctccctc tatacctcga ttacacattt 360
tcttttgtct g 371

<210> 21647
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21647

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gggtgttgaa gagatggcat gggcatctcc ttccttcctt tttgcccctg ttgccccgat 120
tcttttggcg tttacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccaac 180
ctcgattctt tccctggcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240
cttctcatag tagaactg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt ctttaaaggg 360
ttcacctct ntcttgaaca tattctgcag ctg 393

<210> 21648
<211> 320
<212> DNA
<213> Glycine max

<400> 21648

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cttgggttgc ttctggcaaa ggttgcggc gaatggcccc attttgagtg ctatgatcat 120
agaatgcaat ccaactag ggtcaaggtc tttcatttta agagagatgg tgacgtacct 180
ctccgtgaag gatgataatg actaatcatt agcttgggtg aggttgacca aagcagtggg 240
tgttgtgtgg tgagggctgc tggttgcata ttgcgcttca aaatgtaga ctaatgagga 300
gaaggagtgt tgcgaacatg 320

<210> 21649
<211> 426
<212> DNA
<213> Glycine max

<400> 21649

taccatgtgt atgaatgaat tattatttgc atttaatttg agctgaaagt atgtatgatt 60
gattgaacct tgagcctgca caatttatct cctactacct tatcttaggt tgtaggagag 120
cgtcattcat agaaagaatc ttggttcaag gcaaatttgc ccaaatttg ggggagttac 180
tggtgaaag tgtgaaatgg taagaaaata tcagcacaca gttcaaaaaa aactaattat 240
aaaataaaag tgtgtgtgtg tgctgccatt taataaaaag aaagttgagt gtaaaaaggg 300
ggcaagtaat acggttggga ataaaaataa aaaggttgat ctatggatga atgctctcct 360
agaatctaag ctactgcgtc ctagaaaagc catgaattat ttgcagccta gcctcattac 420

aagcct

426

<210> 21650
<211> 324
<212> DNA
<213> Glycine max

<400> 21650

agctttaacc tcattgtctc tcacagtctt tagattcggg agccaatcca atccttgtgt 60
ccggactctc atccacttat gatagcgacc gatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcatgccg catcccgtgc cttgcgaact ccttggagta cctttgcatt 180
ggggtcactg aaaccccggtg taatgaaagg cgtgatgctt tcgtctaata gcgctcctct 240
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aaccccatgt 300
tcccatccag ggaacatttg gata 324

<210> 21651
<211> 422
<212> DNA
<213> Glycine max

<400> 21651

tgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgaggtcc tttaatggtg 60
gttttccacc atggagatgc aacggaagac aaaggagaag aggggagagg aggcgccatc 120
cactacggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
gcttgggaagg atgcttcaat ggaggaaaag aaagagggag agaaagagag aggggggagc 240
acgaaattga aggaataaag gagggagaga agtggaactt tgaaagatgt ctcacaagac 300
tctcattcat caaagtgaca acaagtgtta cacatgcttc tatttataga ctatgtagct 360
tccttgagaa gctatcttga gaaaacttcc ttgagaagct tctttgagaa aacttcctta 420
ag 422

<210> 21652
<211> 67
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 21652

tttgtcatgc aagcttttct aacactttct ctcaatatga aatccacatn ngaaccnna 60
ctcatcc 67

<210> 21653

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21653

gacctatgaa actcagctta tatttgggaa accaaggtgg taggctaata cttttcacac 60
ttgttctttg tgcttcttga taagtccat ttctttacaa gcaaaccatt agtagaaaaa 120
gtctaataga ctaaaaatct acttcttaaa aatttgttgt cattaaaaca ttaatttcat 180
aaatattatt atgttgagat catgagattt acattcatat gagtttttgg tgagttgttt 240
acaagaattc aaggtgttgg aatatcttgc tatgcatatt gaattatctg tgggttcatg 300
agtgtgatga acgtataaat ggtgaatcta tgatgttata acctctgttg agattagtga 360
atgaatntgt gatgacatat ggtattaatt tgaatgatca taacatacat gcattgatga 420
atgacattat atgtgagt 438

<210> 21654

<211> 376

<212> DNA

<213> Glycine max

<400> 21654

agctttgcag atttgggtctt cgccagtgaaggatcaatg tgggtccgaa aagaggcaaa 60
tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgaa 120
ggagaaaccc atgctgtgat tgccattcct gtacggccaa gtttcccacc aaaccaaca 180
atgtcattac tcagtcaata acaaacctcc tcttaccaca ccaccagtt atgcacaaag 240
gccatcccta aatcaaccac taagcctgtc tategcactt ccaatgacga acaccacctt 300
tagcacatac caaatcacc aaccaagaag tgaatcttgc agcgagaaag cctgtagaat 360
tcacccaat tccagt 376

<210> 21655
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 21655

ttgagccaaa atcctgactc accataaacc ttgacctgtg tgataatgcc aatccttacc 60
 ctcggaagca aaaaaaggaa agaaggaaag gaaatttcca atcaaagaga aagcaaaaaa 120
 ggaaggaaag gaaattccca atcaaagaga aagcaaaaaa ggaaggaaag gaaattccca 180
 atcaaagagt gggagaaaaga gaaaaaagaa aagaaaggaa attcccaatc aaagagtggg 240
 agaaagaaaa aagaaaagaa agaaaattcc caaccaaaaga atgggagaaa gtaaaaaaga 300
 aggaagctcc tggtaaaga aaccagaaga aatgtgccga gaggtccttg gaccagacga 360
 tatctgaaca atacagaatt gcaccaaag aacaaaagaa agataaggaa accatgacct 420
 ataagt 426

<210> 21656
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 21656

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 gtggcttctt tgagaagctg tctcaacagg cttctttgag aagctagatc cttatctatc 120
 cacaccctt tattaactaa attaactccc ttaaaaataa ttacggatga aaataacgca 180
 actaataatc aaacatcata cataattact aataatatat agatatatat atcaggggtg 240
 tacactaacc ctttttgaaa cctacaaga tatcccttat ataggcccaa agagagagag 300
 aaccacaaa atcgcacac atctctcttt tgtccttctt ttgtaaaaca tgacttgta 360
 ggtgagcaca gctcactagg a 381

<210> 21657
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21657

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tcagcttcca	caaaagtttc	ttaagcaagc	ttccatcaag	tagtaatcaa	agcacaagag	180
cttcaagtag	gtgctcctta	aacctccatt	aatttttagc	tttaccttct	cctccattgt	240
tgtttcttca	tttttatcca	tgtatctcct	tacatgtctt	gtgctaaatg	ttgttaacat	300
gatttttttag	aatttccaca	aattaaactt	gctatagaag	ctagatttga	ttttctatgg	360
ttcanatctc	ttgttcttgt	tcttgaacca	tgaattgtgt	tgagtttaag	ttcctttgag	420
t						421

gcgaggagaa aaagacaaga gcgatttcaa gaaggaggac aaagagaaga gggaggggcaa 240
 ggttttcgag cgcgcgggtt gtgaaatgtc aagttttaac ttataaacat aacaacatcg 300
 tttttttaag gataaccgat gttaactgaa tatagttaac atcgggtttg gaaaagccga 360
 tgttaacatc aaatagatta catcggttnt ttaaaaaaac cgatgttaag atcaac 416

<210> 21660
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 21660

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 tggaggaatc ttctggaggg cccaagtggg cctgggtgct atttgcaccc ccatttttac 120
 taaatacacc cccctgcttt ttttttgtga ttcttttttg gtaaagttat ggaaacatac 180
 gaattttgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggatcacata 240
 atcatccctt ttctgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
 gcatttgatc tccggtgtgt cacggaacct tacgaattgt gcatcaatat tgtcttttgt 360
 tttcc 365

<210> 21661
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21661

ttgagccaaa atcttgactc accataaacc ttaccctctg aagcaaaaaa ggaaggaagg 60
 aaaggaaatt cccaatcaaa gagaaagaaa aaaaggaagg aaaggaaatt cccaatcaaa 120
 gagaaagcaa aaaaggaagg aaaggaaatt cccaatcaaa gagtgggaga aagagaaaaa 180
 aaagaaacga aaggaaattc ccaatcaaag aagtgggaga aagaaaaaag aaaagaaaga 240
 aaattcccaa ccaaagaatg ggagaaagta aaaaagaagg aaaccatgac ctanaagtgg 300
 tcttctccct ttgattacca accaaaatcc tgtgcgctag cgactntntc gccccgcgct 360
 aaacaaaaac agaaaaggaa aaaagccaac caaaaatcaa aagccaaaaa cacacaaaag 420
 c 421

<210> 21662
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21662

agcttccttt accccttttt cttccccaag ctattctaag cacaccaagc tacgggatcc 60
 atgagtctag cagcccccaa gcctccattg ttggattttt gctctccctt ttgcgttttt 120
 gttcacttcc tacaagtaag tgcactatcc cttgattctt tggctctcca tcgatgtatt 180
 ttagtgctct aattatctat gtttggcaaa tttcgtgagg caattcatgt ttgatttggt 240
 gaattanggg gttgtaggga tggccatgag cctatctttg attctgagat gaatgggcat 300
 gacacattat ccctattccc catttttttt catgtctaaa catgcgcca ccaagtgttc 360
 agtgaaatgc ctcaattcaa ga 382

<210> 21663
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 21663

agtcctaaat gacatttcaa gctaggatta tctttcttta acctccattt accacagaat 60
 tcagacttaa ccttccaact ctcaaagcct cattcttttt cactcataa catcacattc 120
 tcactttcta accctagggt aaactctacc attcatctct aacagttttc cataagcaat 180
 ttcaacatat aaacatcaca aacatcatca caaaaaccct aaaacagagt ggggtatgtct 240
 aactcatcca aacatggcaa tttcaacaag ctttcaacaa atgtcttcac aaataatcat 300
 cacacagcag aaacctagca agactacca tcatatctcc caaaacocca taccacgaa 360
 atttaagaga gaaagaagtc cacccaaacc tgaattttcg aagaccact cgtagccacg 420
 cact 424

<210> 21664
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 21664

agcttcaaga gaaagatgtc ctcagcaaat tccttatttc cagaaggga ttctatcaat 60
agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttc 120
atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac catagaaaaa 240
cctagagata gatggtctga agaggataga aaacgagtac aatacaactt ataagccaaa 300
aacataataa catctgccct aagaatggat gagtatttca gggcttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tcttcgatt 389

<210> 21665
<211> 419
<212> DNA
<213> Glycine max

<400> 21665

tgcttgagaa gcttctatgg aggttgatc tttgagcttc attgggggttc ttcaatggtg 60
atttttagcc atggagttgt agtgaagat aaaaggagaa gaagtgagaa gaggcacccat 120
ccactacgga ataagccatg gaagaagaaa cttcaccacc aagagagtgt cttggataag 180
aagcttaaag aggaagcttc aatggaggaa gagaatgaga gagaaagaga aagagaaaaa 240
gtggcatggg aatgaaggaa aaacagggag agaagttgaa ctttgaagtt tgtctctcaa 300
gattctcatt catcaaagtt gccacaagtg ttacacgtgc ttctatttat agcctatgta 360
gcttccttga gaagcttcct tgagaagcta gtgttacacc cctccaatag ctaagctca 419

<210> 21666
<211> 354
<212> DNA
<213> Glycine max

<400> 21666

cgcttcgatg gcaagctagt aacacggcat gcaaggtaca aaggcggaga tgatgatgtt 60
aatggtatta acggcaacca caaatgtata ttatgactca atgactgtta tatagattta 120
tatgaaatac ctatacaagg actagtatcc actttgttaa aatctcaagt gataatatat 180
tatggtctag tgatgcttcg gcactagatt aaaattctta taattaaagc gaccgatcgt 240

ttacaacata tgctcctgta tcagactcgc atttatactg aggcattaca tgcgacttgg 300
agacatgtgt caaccctcca cgttgagaca cctgtaccc cccacatata tgta 354

<210> 21667
<211> 208
<212> DNA
<213> Glycine max

<400> 21667

gctatcagag atacagtctg agctgatgag cactctgcta gcatgaggcc atatgcgagg 60
aggggtgctaa tttgatagaa agatctcaga cttagctcccc acagcttgtg caccggaacg 120
agtggcttac ttgactgaaa ctgagatacc tgcacaacgt atgaacttgt agagccaatg 180
atgctaattg catttactgt gactacca 208

<210> 21668
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21668

agcttgtctc tggaaactct gctggcaccg aactgccta ttatgtaagt tcttccttta 60
actttattac tattatatta ttgtagaata ataaaaatac taataaccca ttaatggggg 120
ttactttctt ttatcccttt attataaaca ctgtcattca aagttaataa tagaaaacat 180
gccttttgtt tgcatttgca tttgcagtta tcttcaaaag gatcaacttg ggatgaaata 240
gactatgaat ttcttgaaa tctgagtggg gatccataca tccttcacac aaacgttttc 300
agccaaggca aggaggacag ggaacaacaa ttctatctat ggttngaccc aactgctgat 360
ttccacactt actccatc 378

<210> 21669
<211> 407
<212> DNA
<213> Glycine max

<400> 21669

ggaacctgaa tgtcacaaaa cagtcctta atatggataa gaaattttta atgtaactaa 60
atttcagatt aagtaataat ctcgcaacca actcaaaaga ttgaaattta ttaaaatata 120

taatgatctt gtcatagata caaactctaa ctacattgat taaaggaata ctttaaatatt 180
gctgtaaaaa aaaacttttaa tatatcggtt ttaacttaaa ataataaaca tcatcatggt 240
gatttttttg gttattggga tccaaaaata tcatgggtgct tgaaagggtt ttcgacccat 300
cctgatatgc tgagtgggtg tctttagatt cagccgggta atgggccttg gtagcaaact 360
ccatattttt atttggcaaa taaaatgcag caaccctcat gtccacc 407

<210> 21670
<211> 368
<212> DNA
<213> Glycine max

<400> 21670

agcttgcttc tacaattact agtatgggac tcatgcgtat gcacgagtcg ctccgctata 60
tttttttggt ttggtattaa aattgtgcct acacacgggt aagccgtgag aattgacaat 120
ataattatat ttgtgtcatt ataacactag acaatattat gatgtataac taattgagaa 180
caaaaatgaa tatgggttaa aaaattatga ttaacacata gtaaaataac tattatataa 240
gaaactgtta attaacaaag tcataatggt caagagattg tttttagcaa aaacatgccc 300
acaaaataaa gtgttaattt acaaataatta acaaaagtca gaataatatt aaacttaatt 360
cattaaca 368

<210> 21671
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21671

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ttgcaaagtt tcatggcctt gcaggtgaag acccgacaaa acatttgaaa gaatttcaca 120
ttgtctgctc taccatgaaa cccccagatg tccaagagga tcacatattt ctgaaggctt 180
ttcctcattc attacagga gtggcaaagg actggctgta ttaccttgct ccaagggtcca 240
tcacgagctg ggatgacctt aagagagtat tcttagaaaa aattttccct gcttccagga 300
ccacagccat caggaaggat atctcaggta ttagacaact cagtggagag agcctgtatg 360

agtactgnga gagatataag aaactatgtg ccagttgccc ncaccatcag atttca 416

<210> 21672
<211> 378
<212> DNA
<213> Glycine max

<400> 21672

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaagtg 120
attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
tttcaaaaat atcatgacat gtagagaaga atcaagaatt tcaagtcaca aaatgtcaag 240
aactttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300
catgcaaagt cgtacatgca cacaaaatta acccataata ttaaactaac aaaccgacga 360
aactaccaac attaacaa 378

<210> 21673
<211> 429
<212> DNA
<213> Glycine max

<400> 21673

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cagaacaatt atgacctttc cagcaacaga tacaacctg gatggaggaa tcaccctaac 120
ctcagatggg ctagccctca gcaacaacag cagcctgctc cttccttcca aaatgctgct 180
ggcccaagca gaccatacat tcctccacca atccaacaac agcaacaacc ccagaaacag 240
ccaacagttg aggccctcc acaaccttcc ctcgaagaac ttgtgaggca aatgactatg 300
cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
ggacaattgg ctaccaattt gaatcaacaa cagtcccaga attctgacaa gctgccttct 420
caagctgtc 429

<210> 21674
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21674

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tacatttacc aatggaaaat attacggata ttgtgttttt tgcattctta tgggtggtatt 120
catgatgcag accttccagg agtcaatagt tgcagccggt gctggattag ccttagttga 180
ctcagtgggtg atctcttaac ctggcatgtc catctcttgg taataatctg tgtgtgtgtt 240
ttggggaggg gtaagtgagt ggatatggat atgtacatat ctacttcttc tggtgacttc 300
atactggana ggactatattg tgtgtgtgta cctnttttgt atctttaagc ttgtagttgg 360
tagagggggt ta 372

<210> 21675
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21675

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gagagaagtg gaggtgccat tggccattcc aatcccaacc atgaccacag ccatgcgttt 120
gcactgcttg gattggattt cagggaggag aagcacagat tgtagtactt ggtgttcttg 180
caggtttttt ctatcaaact gtcactctct ttcacaaaag cgtgtgggtg aaagagtgat 240
attgctagca agaggagaga tagatagaag atcttagaag ccattgagat agcaaaagaa 300
gaataaccaa caccgataat ttaagggact gcgtatntca naaagggttt tagagatttc 360
ctatttctgt ttttgacgtg ga 382

<210> 21676
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21676

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ggatgcccc aattatttcc atgacacaaa tgcaaagatg atgatttga aattttatgc 120
aaaactggtc atgcatgcac ctatgtggac gctcaagtgt caaattttta tgggtcatgtg 180

atgctagggc tcangattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240
 ctcttttatc aatttatgca tttatcctag ttcatttcgt gcgtccgng aaattttcac 300
 agcattcacc cttcaggtgt agacacgttt tttcttcaaa aatcggttat gatctatgaa 360
 ttgtttt 367

<210> 21677
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21677

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 tcttgagtaa aattttataa ggtgcgctaa acgcccagtc aaaatttagt gttatttttt 120
 ctgtttttgt tgaaaataac ctatgctaatt ctcttggtt ttatcttata ttttgcaaat 180
 ggcatctaag aaaaggaagg ctccttctac acctttccaa gtcagatatg atcggtctcg 240
 gttcacatct caagaagctt aagagaggta caccgatatt gtggtgccta ggaaactact 300
 accagagagg aatgtggtag tttatttcac tgagttcgat gagttcaagg aggaactcaa 360
 gagaagacac tgggatgaag agttgactta ttntactgat ggcagcatag atgtcaccat 420

<210> 21678
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 21678

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 tacaacactc ctgcgaccac cggaaagata tcgataaaat actctggctc cgaaccacaga 120
 ctgttcagaa ccattccttta cacatgtgcg aagaacaata caatcgagct cataatgtgc 180
 gaaccaacat aataatccca catatagttc ttctctacct acccactata gcaatctacg 240
 tccattcaga caccatagcg acacctcact tcatcatatg agcaaccatt ccacctttct 300
 caaaagactc caacactatc tccttcacac ctttataaac accata 346

<210> 21679

<211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21679

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 cgcacactaa ctaaaatatg tgattgtctt acaaatagat atatcactca aaacttttta 120
 gttttttctc tcaaggtata caaggtattd tcaagagctta gtatctttac aagaatttat 180
 agaaatcttd acaagaaata atgaaagaat aattcatcta aatgatattg gtcttggttc 240
 ttccaagtat taggggtgga taaacggacc cagggtccatg gactggcccc cggttcgcgc 300
 gggtaacata ccaattnttd aatacagttc atggttatgt catattdttg ggcttgcccc 360
 gcttaaccgc cagattatgt gggtttgccc cacgggatcc gc 402

<210> 21680
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21680

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 attcattgta tataggggaa gttagaaact gtatagcaga tccgtatgga tctgatttdg 120
 attcttattc tgtatctgta attacttdt ctaaaaataa ataaatccat catgtgtgtt 180
 cttagacacg gactctctaa atcttatagc tatatcataa ttgaaacact taatagaagt 240
 gccaaaataa gaagtgggtc atggaggtca cctanggcta gtggctgcct tggatgggtg 300
 ctgcacaaca ggatgactgg attcttgact cttgatcatg cccactggac atacgtctct 360

<210> 21681
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21681

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 tggccaaggc tgcattggag atcttgaaaa ccatcatga aggaacctct aaagtgaaga 120

[illegible]

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<223>      unsure at all n locations
<400>      21682
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<400>	21683
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397

<210> 21684
<211> 384
<212> DNA
<213> Glycine max

<400> 21684

agctttacaa gctctatatt cagtaggatg gtaaaacttt tcattttaag aaaaggaaag 60
aagttgatat ttaaattatt ttgagcttct ttccattttt caatattatt gattgaagtt 120
tgagagttta ttttgcataa ctttagtcta caactttgac tggttacatt acctataact 180
tgctttttgt tctttttagg tttaaagtta aactctagat ctatgaactt agtttatggg 240
gtaaaccaag gctagtacac tacactttga ggaagttcaa agccagctaa aagtcaattc 300
aaactttgat acaaagtac ccagaataag gactgaaact ccttctgtaa ctgcctatat 360
cagtaaatat tacaacatc aact 384

<210> 21685
<211> 410
<212> DNA
<213> Glycine max

<400> 21685

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aaattttaca aggataaatt ccgaacattt tgatatttat aagaacaaaa aatatatttt 120
agccttgttt ttattgttaa aaaaaaaaaa gagagaaatg ctactaacat tttctttaac 180
acactccttc atacacactt tctcttatgt gttaaaatgt atttagttga agaacaagtt 240
ccacaaaatc ttgaacctac caagtgtgat ggttgggatt ggtatgagcg cgaacatttg 300
ccttacacat ttgacgtgac tgtcactgca atggaagatg cccaacacat tcgcaatatg 360
aaagtggatg aactcattgg gtcccttcac acctttgagc tacgactctc 410

<210> 21686
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21686

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 ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aattttatgc 120
 aaaactggtc atgcatgcac ctatgcggaac gctcaagtgt caaattttta tggatcatgtg 180
 atgctagggc tcaagattca ttctctctat tttaaataca cccaatgttt ccaaaatatg 240
 ttcttttatc aatttggtgca ttctccaag tccatttcgg gcgtccggag aaattntcac 300
 agcattcacc cttcaggtgt agacacgttt tttttcttca aaaatcgggt atgatcaatg 360
 aatttttttt tttttttaa 379

<210> 21687
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21687

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 ctaagcgcaa cactcctggc taagcgcgag gaagaatcca gaagaagatg agttgtacag 120
 attcgctaac cgcaccactt catctctcta agtgcaccgc ttagttcat tcgctaagtg 180
 agaaaggcgc cctaagccaa aaatcactaa catgcgctaa gcggtccata cgtgcgctaa 240
 gtgcacgagc acaaacaagg ccacctatgt aagccttaaa ttagattttg tgaggggagt 300
 gtggactggg attcagagct ttacatgtct agggtttcta gagagagaaa gatccaagtt 360
 ccagagagtt ntgagagatt ntgttgtgtg aagatntgca gagaccggag ctcgaagc 418

<210> 21688
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21688

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 ttaccctcgg aagcaaaaaa gaaaagaagg aaaatttcca atcaaagaga aagcaaaaag 120
 aaaagaagga aaatttccaa tcaaagagaa agcaaaaaga aaagaaagaa aattcccaat 180
 caaagaatgg gagaaagtaa aaaaggaaga agaagaagga aagaaagctc ctgatcaagg 240

atcgaaagaa aacagaagaa atgtgcagaa aggtctttgg accggacaat atatgaacaa 300
 tacagaattg tcaccaaag aacgaataga aggaaatgaa accatgacct anagtgggtct 360
 tctcccttta attgccaacc aaaatc 386

<210> 21689
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 21689

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 ggagtccacc cttgtccctc ccaccatcga agccatcga cctcaatttg catgcatcgg 120
 acctcagttg agttttaaga ggagtgtatt gttaggatat aaggagaaga agagttagtt 180
 aatatagtta aactactaat gagttagtta gttagagaga tttattagat ataaatagag 240
 gaagaaggat aggagagaag gggatcttat catttgtaga ttgagcatta gctctttgtg 300
 aaaggagaaa tcctttgtga aagggaaacc ctggaggag agttttctct cctattttct 360
 gttcttttct tactagtcaa taaaatcttt tattttcttt ctcatctcaa ttcttggttc 420
 ttaac 425

<210> 21690
 <211> 378
 <212> DNA
 <213> Glycine max
 <400> 21690

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 taattttaag catgggtcttt cacgatggaa aggcaattca gatttcctaaa tattataatt 120
 tgtagtatta aatatgcatg gtgaattgtc atgtttatat atgaaactca ttttttgact 180
 tttgaagagc ttacattcaa ctttagatga attgacactc gactaaattg cctacttaat 240
 gtttttatgt tatagaatga ttattataat ataaaataaa taaatgatgc aaaataaaaa 300
 attcaaatat atataagttt aattttgatg taccataagt gtaaaaaaaaa ttatattatt 360
 aaccaaatta tatattat 378

<210> 21691
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 21691

aaactctgcc gtgaccgcag ttccggcccc catagtcacg gccctccctc ttccttcac 60
 ccttatgcgg tgccctgaaga tgaggtaaac caatcgcatc tctctctttc actcctcggt 120
 tcacttatca aaggaaatcc gaatctaata atgctgtctg tctaagctga gacagccaga 180
 gatttggatg agatatttcc gattattgat ccgaaagctt aggcgaccag caagcacaat 240
 atctttgtca gtgtcttgag gaagcggctc caccatcctg ggtagacatt tcaatctgga 300
 agattctggg acattgcatt aatacttate tct 333

<210> 21692
 <211> 121
 <212> DNA
 <213> Glycine max

<400> 21692

accgggcagg cctataggag tcgaatatga ataccgtgac gctttgcaga tctgtcacgt 60
 gaccttacia gattccatct cctaataccg aggccaaaat gaactcctgc ttacatcatg 120
 t 121

<210> 21693
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 21693

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 tctgtgattc ttacataaaa gattcataaa atactggatc tccaccaaca caagcaaattg 120
 gtcgataaaa ctccaaaatg gcattttctt tcgaccctat tattttttta tccttatcat 180
 ttaggaaaga aacgaaaata tcaggataac aaacattctc tagaatttcg cttaaattcg 240
 aacccatagc tgatgataaa actagaatag atattttctg tttcctactc acacgagccc 300
 atatccttgc ttttctatca atctctaatt ctaatctacc ccccagctct gatattatgg 360
 tgccagtata gaccgaaatt ccgctaaggt ccaattctga acggtaataa ataccaaggc 420

tt

422

<210> 21694
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21694

agcttgcggtg tctgaattcg tagcaaagca cgtttaattt tgagaaaatg agaaattttt 60
 tccaaaaaca gttgaaaacc gctaaaccat cagttttcac ggttttacac cggtttaacg 120
 gtttcctgtc cggattgtta attgccagtt tcagagatta tccggacca atgacaggcc 180
 gattttcggt tcaaccgata gaactcggtt ctgtccaatt ttcaaaactt tgatgaaatg 240
 ttaatacatt ataaaaatgaa ctangcatgc actntaaacg gacatccatt tatgatctat 300
 tatcatatat gtttgtgaaa ttctataata attattntaa aaagagatat taaggatgat 360
 ttatgaatgt aagt 374

<210> 21695
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21695

tttgccatag tgaaacaaga cccttgatta atttgaattt ntgaagattt gctagggaac 60
 tagtcatgac cccttaagtg ataaaatcac ttgtcacaca aaataattag acagcataac 120
 gaatgcaatt atagctatct aaataaacat aacaaacaat ttgctagggg tcaaacaccc 180
 ccaaacccaa accacaacgc gtatagataa aaatggcaat atgcagagat atatataata 240
 gaaaataaat ttatcatgcca caaatataat ttccagagtt cacactctgt ctgtcttattc 300
 attcaacaac aataaaaaata aatatgtgta taaaattata tgtgctgca tgcatatcaa 360
 taattntatc atgagagaat catcacaatt tcaaaacatg cagctcaaca atataataac 420
 aaataaa 427

<210> 21696
 <211> 377

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21696

agcttgccgc cacggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
 agagagcaag atatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300
 atatccgtga tattgttgag ctgcangacg ttgttgaaat ggatgatttg cttcaciaag 360
 caatccaagt ggagcaa 377

<210> 21697
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 21697

taggctaaat taagctaaac tttcgtaacg tacttgtgct gactctagtc ttacatgagg 60
 gatctgcaga caaatagctg ttatttttgt tttggtagct atagttgtta tttttggctg 120
 aatgtttttg tggtcacttt ttttgatcca tattttgtgg gaaaaatagt tggagccctt 180
 agtttgggtca gatttgaaaag ttccaaaaaa gtagcaaatt tgatttttgt caaaacttca 240
 aacgaccata acttttgctc cggttatcag aatcacaatt attatatatg tatttgggggt 300
 aaaaaaaaat ttcccatgcc gtggcagcct gccataggct ggctgaggtc tccttcttcc 360
 aaaaattgcg attctgtcaa aaattattta tttccaagt attattctct tatttttctt 420
 aactta 426

<210> 21698
 <211> 272
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21698

agctttctca atatttgggt atngatgctc ttaagacgac tgcgtatata tggcaccgag 60

ttccaaccaa cgctgacgca tagacacctc ttgagttatg caaaggatgg aaaccaagtg 120
 tgctacatat actcgttagg ggatgcccga ctgaagcaag aatccataat gcacgcgata 180
 tgagactaga ccctaatact atgactaggc atttcacgga atatgcggaa aggtctaattg 240
 ggtatatggt ctattggcca tcccacaaca ct 272

<210> 21699
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21699

tatatataag agttttctaa taaatctcat ttgctataat gatgtaaata ataatttcta 60
 gtatttttaa tcatgatcca gttatagaag cagttactag aaggtagatc agttacaatt 120
 ttcaccgggc aggcaaattt ccattacatt ttgtgtgact ccagatgata ttgattgtcc 180
 ctatgctcga tccttgatca gcttacaggt tatgactcat aacctgattt tagtgggcat 240
 actcatatca ttatcattac atgctaattc ctcatgggtc atgatgaagt ctgtatataa 300
 aaatactaca tgcattgtatg tgtacattgt ggaaaaatac tgccaacacc ttatngtggg 360
 ggaaaagtct tgaaaattat gaccaggcct t 391

<210> 21700
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21700

agctttataa gcgcggggttc gggagacaaa ggtcaagcgt tcgcgatatg cgaagatgat 60
 attccgagta ctttggattt ggtacgacca tgccctctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacggtttta 180
 aaagctctat agttgggcct aggcctttaga gtttttctt ttgttaaggc tttgtgtctt 240
 ttgtttttga atttataata caaggatctt tcttcatctg ttcttgggtct ctaccattc 300
 tcattcactt gcatgtttac ttcttntct gaaacggcag atccgatgac gaggccccg 360

<210> 21701
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21701

tgcatttgga gaggttccat caaccgcct aattccttga tgctggtggt atctaggcct 60
 ttaaccttga cttggtaaaa cctcttgccg gtttgattag tccccatgct tactaaagtg 120
 agacaaaaag ctggtgcaaa tcaaaactcc gatattcat ggggtgggatg gatgaatgca 180
 tgaaggaatg catatgacac agctgtattt taagaatgcg ggtgcccggg acattgtctc 240
 ctttttagac acaacgtcta ggggtagcaa agtgcccaa tgtatgtatt taaaacggtg 300
 acccggaacc tccattgatt ntgtctatag aggggatcaa gacagaacc ctatgcaatg 360
 catatgcaaa aggcgcaata gcatgaaaat attcactgaa cataagca 408

<210> 21702
 <211> 368
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21702

agctttacta gctagataga tatttgtcaa attcctaattg gtcaaacatc attctttagc 60
 acgaatgcat attcaattct tgtgttcgtg ttcatatata tattacactg gcatacaatg 120
 catgtttatt ttctttaaga tgctgccatc tgtccaattt gtttgctata tatgagattc 180
 attaaatggt tgggtaaggc aattataccg ttcccgcgag tcataccatt tgtcattggt 240
 catatgcata gattaattca taaagttttt tttagccaaa tcattntata gtttgtgttg 300
 cagattatat aatgttttag aaaaaaagta aatatntaa aatatatatt attttactaa 360
 attaatat 368

<210> 21703
 <211> 345
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21703

ntgggccatt aacaaaaaa atgtatgttt gaagtattat ttgattgcct ttctaaacac 60
aatatgtttg aactttgaag tacacaaaag gatgtgaaag tgatgcaaac atatagcatt 120
gaagcatacc aagtaagtaa aaacgtactc caatatgacc agctccagaa gaaagaaata 180
gctccattaa cttgggttaga agacattgtc tgcattgtgc atagaaacac tggtattaat 240
gaaaccattg cacatatagt tcttcaatta accacaattc ttttcaactt ttaataatat 300
aaagttccaa aaaccttcct ttcaaaggaa aagggggggg gggggg 345

<210> 21704
<211> 388
<212> DNA
<213> Glycine max

<400> 21704

agcttaatgt catagttttc atgggtgctag tgataacaat aatgataata ttagtaatga 60
tgatagtata gtgacaataa tgataagatg atcatgatat aatagtgata atgggtgacaa 120
aaatagcaat agtaatagag atgatgataa taatgataat agtaataatg atgacaataa 180
cgatgataat cgcgaaagta ttaagtatac ctttatttta ttttaggttt cattacttat 240
ttgatgtcac tatttattat tgcattcaat ttgggtcttta cttattttaa aaacaagtaa 300
ttcattaggt cttttttggt caaaactatt tatttattta tactgggttta agttaaatca 360
acattatttt ttttataatt aatgcttg 388

<210> 21705
<211> 421
<212> DNA
<213> Glycine max

<400> 21705

tcaccaccaa gaaagtgcct tggataagaa gcttagatag gaagcttcaa tggaggaaca 60
aatgagaga gaggacatg gaaattgaag gagaataggg agagaagttg aactttgaag 120
tgtgtctcac aaatttctta ttcttcaaag ttgtgacaag tgttacacat gtttctattt 180
atagcctacg tctaacta aatgaaattc acttaatttc atgtgaatct aaaagaaata 240
ttccaagaat atgtcaaagg aatccttagca tattcccttt agatgccaca agcatgggag 300
gtgtgactct agcacatggg aaacttcatt gagaagcaag gaagaaagct tccttgagaa 360

gctagagggt agctactgac acccctctta tagctaagct cactcccttg ccaaaatgga 420

c 421

<210> 21706
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21706

agcttctcct gcaattctgc aaatgatcaa ctgggatccc aatcgctctc tcgccctcgc 60
cagggtctttg attcttcttt ccttatttca tgccaccaca ccaatcctat tctgttcttt 120
tccttcatat atcttatttt cttttgcttt ctctgttatt ctacttgctc aatcctcttt 180
gcgtctttta tttatgtttt acaacttttt catgccattc cccgtagacg gtgaaaacca 240
tgccattcgt tacaacgata gaggaggatg tcaacctcca attggactga agggactcta 300
accaaaccgt aatattccga ggtgataaag ntctcattct atatattata tgacattctt 360
gttatataat tganataata gaaca 385

<210> 21707
<211> 428
<212> DNA
<213> Glycine max

<400> 21707

tgcatgattt acatctcccc ctttctcaag caaattcttc ttgatatcat caaaatcttc 60
atgatttaca ttctccccca ttttgatgat gacaaccacc tgtaggttag tagcaacaac 120
aaagaaaata tctatttgca tatagtttac tcccccttgg ttttacaatg attgcttata 180
tgagacaatt gaagatttca tatttttcat atataaaaag ttgtctcata aaacaataga 240
taatttttct tactatttta tcttttatct ttctctcccc ctttgtcaac atcaaaaaca 300
aatcatgaat agcgaggaga aagatgtttg ttgcaatgta tgagaatcaa gtgataccaa 360
aaggatttaa atcaatcatt caatattaat caagcaaaaa caagtgcaat aacacatcaa 420
tcacacac 428

<210> 21708
<211> 371

<212> DNA
<213> Glycine max

<400> 21708

cgctttgcac gcacgtttac tagcattttc tagcacgaaa ccgtgatacc tcatgccgta 60
ctggaggcct ctgactcctt acacaagcgg tgggggggggt ctaagttcag agacctatga 120
tgctcgcagt gtgtcataaa gaattctact aaactagtca tgagggacaa ctgtgcacat 180
aactgggact ttatatgatg ctctattcaa gacatttaag aacgttatct ttgttgatga 240
gagatactac ttcgattgc acctgtccac ttgcatgcat ctactttggc tccatgacga 300
gatcacgcgt catgagtggg aggctacaga ctatgatgaa tgatattaag tgatagctta 360
acctaaccac t 371

<210> 21709
<211> 414
<212> DNA
<213> Glycine max

<400> 21709

tgatgctat gcaatgattg gatgtgcacc aaagactcta ttatatgata ttaatgctac 60
ccttagctat gttggagggtg gaacaagaaa tgggatgaaa tatatatgca aatgacaata 120
ttaccctgat gctagatact aattatcata tatattccat cacttagatg atctacttat 180
tatactaatt tatagactga agaagcacac gatattatgg agatttccat atatagtgag 240
atgctctctg gatgcttccg ctatacatca ccactttgtg aaaatgtgat actggacgtc 300
agtgacatga ccaaggaaat aatatgctgt aaccttacta catctcttga gagtacaatc 360
attctatgag ttgtcatagc actatgtgcg agactctgag catatcatac ccat 414

<210> 21710
<211> 389
<212> DNA
<213> Glycine max

<400> 21710

agcttggtgt cccatgttac gggctagtag ttgtctttta tcagttcttg ggccaccccc 60
tgatattgga gggcgaccaa ctgtgcaagt acaaccagag gaggaggcag gtctccagct 120
tcgacgagga ggctatcgca tagctactat gcataccagg gcaagatttc gctcagaccg 180

ctgcaaggag acgagtagcg atctgcatac caccacaact ctgatctcct cctgccgaag 240
 agttagctgg tttatgccat catgacatag gtaagtatgc acgtggctca attgatttct 300
 aatgtcattt attgtttgca gggattgcac ccacaagaca ctgagtgggc ccggagaagt 360
 ccaacagggt cctgggggtt ccagctctg 389

<210> 21711
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 21711

tctccccaa tttcctataa atagggggag aagtgaagtg gtttaggggt cagcccccta 60
 tgcacttctt tctctttcga atttgctttg aaaaattgtt tccgtgaaga aaatccaagc 120
 cgaggcgctt tcgtaacgtt tccgtgagga atttcgcgaa ggttttcgac cgttcttcga 180
 cgttcttcat tcgtttctca gcgatcttca gtcttcaacg agtaagtacc tcaaaccaag 240
 cttttcaatt cattctatgt acccgtgggtg gtccacattg ggttgcatgt attcttattc 300
 tcgtttcatt tactttctat accccctttt gacgtgctta agccatttta ttttaagtcatt 360
 ttctcgctta acctcaaact aaaataaatc tccaccgatc 400

<210> 21712
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 21712

agctttcaaa accggtcgat tgaatcctcc ctccccaaaca ctctcgccat cgcattgtaa 60
 gttgccccat cttgcttaaa catcccactc tctccaacc accggaaaaa tatcaatgcc 120
 ttcgctgggt ccgaagccaa actctccaaa accatcttaa cgacatcacc ggagaaccct 180
 acattcaagt ccttaatctg cctctcaaca tcatcatccc acacattggt cctcacaatc 240
 ctacacacta tagcaatatt cttctcattc aagttatcat acaaaccctt caacttcgcc 300
 acatcagcaa ccattccacc cttctcaaaa gactccaaca ctatctcctt cacaccttta 360
 gaaacaccat acc 373

<210> 21713
 <211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21713

tngaatggc ttataccact aaggtgcccc tgcacacaaa ataactttgg ccttgaaggt 60
 tggacagagc taacctttta ttagtagaat agacatgggt aggatgaaac tccttcctac 120
 cagaggagca gcccatgagc taaaaaacta ggtagaacia agagctgaaa aatatctttc 180
 aggaattggc aaaaatgatg catcaatatt acattcacc c atattagtgt ttaagtgaag 240
 aatgatagca ggggggaaag atagtaagaa gtgtactagt cagataaagc aaggagagaa 300
 gtagtagatt tcatactaga gcactagtgt aaaagccacg atccccacat aattaggtat 360
 agagatactt tggatttgaa aactttacac gtatgcatat atgccaagtt ga 412

<210> 21714
 <211> 370
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21714

agcttaacaa ttccaactac ctcttttgggt gtcaacaggc tgaacctgtt ctcaaaggac 60
 atcacctttt tcactttctc actaaactgc agattccgac tcgatattct accattgctg 120
 attgtgatgc tgggtgttact tcgcctgagt tcttgctttg ggagcaacag gatcagctcc 180
 ttctattgtg gcttcaatct actgtttccg gcgagggtgt tccgcgggctt gttgggttaca 240
 aaactgtgtg gcattcttgg gacaagctcc acacacactn ttactccatt gttcgtgtga 300
 naaaacggca actccacaat gatttacgta acattntttc taaacaatag ttcaattttc 360
 ggctatttgt 370

<210> 21715
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21715

tgactaggcg agttgatttt agccttagtt tcactttagt tattaatcaa ttcgattaag 60
aatgagaaat cccaaagaga aaacgtccga ttgattttcc gctttatttt actaaaagat 120
gtttttcgat tatttatatt attttttacc tctttttgat ttccatcgtg gttacggcac 180
gaccgaacgg tcggaattta ttttaaccga agttaatgga taatacaatt caaacgttcg 240
gtggaaattt attttatttt taagttaagc gagaaatgac ttaagtaaaa tggcttaagc 300
acgtcaacag ggggtataaa aagtaaacia aacgagaata aaaatgcacg aaacacaatg 360
tggaccacta cgggtacata gaatgaatcg aanagcttgg ttcgaggtac ttac 414

<210> 21716
<211> 379
<212> DNA
<213> Glycine max

<400> 21716

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag aaaggggggg 60
agcacgaaat tgaaggaaga aaaagggaga gaagttgaac tttgagttgt gtctcacaag 120
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaggtag 180
cttcattgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttcct 240
tgagaagcta gagcttagct acacacaccc ctctcataac taagctcacc tccttgaaaa 300
gcttccttaa gaagattcct aaagaagcca gagcttagct acgcatacct ctctaatagc 360
taagctcacc tccttgaga 379

<210> 21717
<211> 421
<212> DNA
<213> Glycine max

<400> 21717

tcaagaatta atggcctcat caaactactt gttcccttag gcaattcaat taataggcct 60
cctattttta atggagtggg ttaccactat tggaaaaccc gcacgcaaat cttcatagag 120
gctatagatt taaacatttg ggaagccata gaaatagggc tttatattcc caccatggtt 180
gctggaaata caacaataga aaagcctagg gaagattgga gtgaggaaga aagaagacta 240
gtacaatata acttaaaagc caaaaacata attacatctg ccctaggaat ggatgaatac 300

tttaggggtat caaactgtaa aagtgtcaaag gatatgtggg ataccctcaa gtaacacatg 360
aaggcacaac aaatgttaaa agatctagga taaacacaca ttaactcatg aatatgaact 420
a 421

<210> 21718
<211> 88
<212> DNA
<213> Glycine max

<400> 21718

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttggaca agtggcctca 60
gatattcttaa gaaagggggg gggggggg 88

<210> 21719
<211> 428
<212> DNA
<213> Glycine max

<400> 21719

gcttctcaag gaagtcttct taagaaatct tctcaaggat tctacctagt ctataaatag 60
aagcatgtgt aacacttggt gtaactttga tgaatgagag tcttgtgaga cacaactcaa 120
agttcaactt ctctcccttt ttctccttca atttctgtgt cccctctctc tctttctctc 180
cctctttctt ttctccatt gaagcatcct ctccaagctt cttatccaag gctcatcttg 240
gtggtgaagc tccttcttcc atggcttatt cctagtggga tggcgctcc actcacctct 300
tctcctttgt cttccgtac atctccatgg tggaaaatca ccattaaagg acctcattga 360
agctcaaaga tccagcctcc atagaagccg cacaagcaac cttccatcaa gacttacaac 420
tcttctag 428

<210> 21720
<211> 331
<212> DNA
<213> Glycine max

<400> 21720

cgcttgtcga ggatgttttc atggttgaaa agaaattgag aacgggggat cactatattg 60
ggagaataca cgagcgcatt atatgcaact ctgaatggta tctcatagca ctttccttga 120

tcacaggtac agcattggca tcacatgctt cgatgtatat actaaggaac tttcctgaga 180
agctttcata ataatactta cttgacaagc ttctttgagc aaaagtcctt gagaagactg 240
agtttagcta cactcactca tgtatacact acgctcacct ccttgagaca cttgcttggt 300
aagctagagc ttagctacac acacccctct a 331

<210> 21721
<211> 421
<212> DNA
<213> Glycine max

<400> 21721

tctcaaaggg tatgcaaaaa aaaataatcc aagcagttgc caaattacta caagagtctc 60
ttagaagccc tccaaaacct aacaaatcaa gattttctaag tcattaaaaat ttcgagtaaa 120
taagcaattt agtccctgac tttgtacccc tgttgcatat tagtccctaa cttaatgaaa 180
aatccaaaat agtccctatc tttgcataag tgttgcaaaa tagtcattgt cgttacattc 240
aaaggtaacg tcgttaatga ggtgtccacg taatgctagg tagactaata tgcattctcat 300
gctgcttaca cttctctctc tctctccgct gctcattctc agcctcttat caccaatcat 360
gccgcttcca catggaagaa cccaaccca agccaattct acagaaaccc cctagttacc 420
g 421

<210> 21722
<211> 357
<212> DNA
<213> Glycine max

<400> 21722

agctttgagc aaattcaaac gacaataaat ttttactcag atgtccgatt gtgtcctgta 60
gtttatcgag acgctcgtga ttgaaaatgg aagttcgtcg caaattcaaa agacaataaa 120
tatttacttg gatgtccgcc tgagtcccat aatatatcga ggcactcgca attgaaaacg 180
gaagctcgtt ggaaattcaa aagacaatat atttttactc ggatgtgcta ttgagtccca 240
ttatatatcg cgacgctcat aattgattac ggaagctcgc tggagattca accataataa 300
ctttttactc ggatgctoga ttcatcctt aagtatatcg agacgctcgg aaatcac 357

<210> 21723

<211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21723

ttgagcaaat tcaaacgaaa ataaattnta actcggtagt tccgattgtg tgttgtacta 60
 tatcgagacg ctcgtaattg aaaacggaag ctgcgtagc attcaaaca caataaattt 120
 ttacacggat gtcggattga gtcccataat atatcgagat gctcgtaatt gaaaacggaa 180
 gctcattata aattcgaacc gtaataactt tttactcgga tgttcgattg tgtcccgaag 240
 tatatcgaga cgctcaaaat tctgaataga ggctcttagt aaattcaaat gactactaact 300
 ntttactcgg atgtccgaat gaatcccgtg atatatcgag atgctcgaaa ttgaaaacac 360
 aagctcgtag caaatgcaaa ccacaataac ct 392

<210> 21724
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 21724
 tttcatgcaa gcttttagctt taaaagattc tacatgtttt tattatttct ctttttacta 60
 cattttatta tttttttata tgactattat tatagtaata ttatattgtt gatagtgcaa 120
 taggcatgat aatagctact agctagaaat agtgccgaaa ataggtatgg ggaagcatgt 180
 tacaataaca tcaatacaaa aggcaagtac gaagaagtgg gtggcaacaa tgccagtcca 240
 aaaaaaacac aaataaacta cgggttatca attttgtaa aaaccatttg aacaactttc 300
 ataagtttaa atgaataatt gatccaatta caggcttata atgacaagtt atcgatttct 360
 aattc 365

<210> 21725
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21725

ttgagccaca atcctgactc accataaacc ttgacccatg gtgagaatgt caatccttac 60

cctcggaagc aaaaaagaat acaagggaaa tttccaatca cagaaaagag atagaagatt 120
 tccaatgaaa gatgaaaaag aacagaaagg aaattcccaa tcaaagagcg ggagaaggaa 180
 aaaagaacag gaataaaatt ccctaccaa gaatgggaga aagtaaaaaa ggaaagaagc 240
 tcttggtcac agaaaccaca agaaatgtgc agagaggtct ttggaccaga cgatatctga 300
 acagtacaga attgtcacta aatgaacaga taggaaggat aggaaaccac gacctcaaat 360
 ggtcctctcc ctttaattac caaccangat cccgtgcgct agcgaccctt ttttct 416

<210> 21726
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 21726

agcttatcaa acttagaaat caagtgatca tgtattccga aatatagggg gagtaaacgc 60
 atgcacattt tatcaatata caattgtttg ttgcttgctt gaatcttgat ttcaggtatt 120
 gtattgtcat catcaaaaag ggggagattg tagatgcaat tggctttgat gttttgatga 180
 tgatcatgat gatgtgttgc aattgatgca aatgggcttt tcaagattaa aattcaagac 240
 aatacttcaa gattacaagt cacaacatca agatgatcac tagaatatta ggaaggggaat 300
 tcctaattga attagcaaag gtttggccaa gtgatttaaa atg 343

<210> 21727
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21727

tcaacatcag accacttcca ggggtgctgga tctacttcac atggatttga tggggcctat 60
 gcaagttgaa agccttgag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120
 atttacctgn gtcaacttta tcagagagaa atcagaaacc tttgaagtat tcaaggagtt 180
 gagtctaaga cttcaaagag aaaaagactg tgtaatcaag agaatcagga gtgaccatgg 240
 cagagaattt gaaaacagca ggttcactga attctgcaca tctgaaggca tctctcatga 300
 gttctctgca gccattacac cacaacagaa tggcatagtt gagaggaaaa acaggacctt 360
 gcaagaagct gctaggggtca tgctccatgc caaagaactt ccctataatc tctgggctg 419

<210> 21728
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21728

ccccaccccc acaatagagg cgcaacaaa nnnnnnnaag agggatgatc tcagcacagn 60
 aangccgcgg gaccaaccac gacattttta caacagaagg gggggggccac ccacgcaccg 120
 cagagacaca cacacacacc gacaaaanag aaaaagaaca aaaaagcccc cccaccaaac 180
 cccacacac agaccaagca ccaacacaac cccacccacc cagcccaacg ccacaccccc 240
 cgcgagccca cacacccccg aaaacacacc cccagacacc aacccccacc aacagcaaaa 300
 cccaacccg ccccccacgc agcgc 325

<210> 21729
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21729

gcaaccgaaa agaagaacga agcagaaccg acacaccanc caccgcgag cnatgaccct 60
 gaaccgaaa cccaaccca gacgggagaa aaccgcccgc caaaatatcg aggccccgga 120
 ggccgagcag gaagngcgca ccgcgcaaaa ccaagcaaag aaaggcgacc gcgcgggcgg 180
 accagcccc gccgacgctc aaacgcggac aacaaaagc acaacagacg gaacagggca 240
 cgaacacgaa aacccccag aacacggaaa aacaaacaca caaccgccgc ccaagcggac 300
 aaaaaacaag cgacaaaaaa gaccaccca aacccccaaa aaaaacccc gaaaaaagca 360
 gcaggcgaaa accagaccaa caaccgcaa cg 392

<210> 21730
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21730

agcttcctta ttanagaacc tcctgtgctg agatcttcac attagcaacc cagataacat 60
cttttccagt aggccacctt aagggaattt tgtaattcac tggcggcaga actaaacaat 120
tctgcctaag ctcacggccg cattgccggt caacttcatt gccatcgga actcccaatt 180
ccacattctc agaaacattg tagcaaggaa caaagttttc aaactcctca gaacagaatt 240
ccgactcctt caacctcaac ggaccacgag aaaactcgcc aatatccaaa aggtctgaga 300
caagcttctc ttgaagcctt ctataacat ggtaaagtgt acctcttgat gaggatgaaa 360
tcgacaaagt ccaccataaa gatccagtaa gagccataac aactata 407

<210> 21731
<211> 179
<212> DNA
<213> Glycine max

<400> 21731

ggaatggtga tgcaaaaatc aactgagctt ggaatgaaaa tgcaaaaatg atatttggtt 60
gggatttttt gttataccgt gcagaagctt tctagcctcg tggacgtgac ctcataagtc 120
tggagatgta gagctaggta ccgaatgagt ggttttttaa ttggaattaa aaaaaaag 179

<210> 21732
<211> 404
<212> DNA
<213> Glycine max

<400> 21732

agcttgcatt ttatatgttt cgaacaaatc tgataggtga aataaatatt tttttttaag 60
ttcgtatctt gtcacacaaa tctactaaaa aacacactcg tccccgtacc taaataatga 120
tgtgaaaaaa tattttttga agaataaaaa atgtataaaa ttagaagatt ttttctttca 180
tattttaagc taaaatatat cacactaaaa tatatcaact tttataatag tattaacaa 240
taaataattaa agtggttaata ctaaaatata ctaacattta taatagtctc aatattaata 300
gcatcaaaat gtcttacata ctggtttata tcggtaatcc gcaagtcggt agataaagtc 360
cactaggcta aactaaaaaa tttaatatag ttatccagat tttt 404

<210> 21733
<211> 278
<212> DNA

<213> Glycine max

<400> 21733

atgaatcgat acaaaacaat cgcattgttaa gaagatcaat cctcactcgt aaaacagctg 60
gttgagtcct atcatcatga gccttacaga aaaatgctgt gaggcataat tttgctaatt 120
gtatcacaaa gtcaaataat tactctcaag ctggcgacct ccttgatcat tacttgatat 180
acatagcctc tcattcttgag cccaaaataa gtgcctgagg taagactggg tcttgtgaca 240
cagccacaat tagatcattt ataaactata cacctgtg 278

<210> 21734

<211> 409

<212> DNA

<213> Glycine max

<400> 21734

agcttgtcta tagaggcca ggaaggacaa ggcggccgaa ggaactagtt ccgctccgga 60
gtacgacagt caccgcttta ggagcgctgt acaccagcag cgcttcgaag ccattaaggg 120
atggctgctt ctcggggagc gacgcgtcca gctcaggac gacgagtata ctgattttca 180
ggaggaaata gggcgccggc ggtgggcacc actggttact cctatggcca agtttgatcc 240
agaaatagtc cttgaatttt atgccaatgc ttggccaaca gaggagggcg tgcgtgatat 300
gagatcctgt gttaggggtc agtggatccc gttcgatgcc gacgctatca gccagctcct 360
gagatatccg atggtgatgg aagagggcca ggaatgcgag tatggccag 409

<210> 21735

<211> 386

<212> DNA

<213> Glycine max

<400> 21735

tcctcggggc cattcctgcg aaggcaaaca tttggattgt agtttttttag aaatataaca 60
atcattacaa acaagggcca aacaacactt ctcatggcac gagggtcaac atgcacttta 120
taaaataatc atattggggc cgtgctatct tatgacacat acgtatttgc acacataaaa 180
atattgtgtg aaacatttta caacacctat ccatgtacat atttttttga caaacctttt 240
caatgctaca tcctatatat atacacacat tttttggaag gcttcttttg ttacctactc 300

acaaatacac atattttgaa aaacactttt acgctaccca tccaacactg tgtaaggcac 360
 ttcattgctat atatattcat attatg 386

<210> 21736
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 21736 .

agcttttcta ctaagttgcc tgatgcctga aatgtctttt ctgatggcag tggtcctaga 60
 tgcaggggaag atttttctcca agaacaccct ctttaagggtca tcccagctga aaacggacct 120
 gtgagcaagg tagtatagcc aatcttttgt cactccctcc agagaatgag gaaaagcctt 180
 tagaaagata tgatcttctt ggacatcagg gggcttcatg gtggaacaaa aaatatggaa 240
 ctcttaaga tgcttatgag gatcttcacc tgcaagacca tgaaactttg gcagcaaatg 300
 tattagtcca gtcttgagaa catatgaaac accctcatca ggatattgaa tgcacaagct 360
 ttcataagtg aaatcaggtg tagccatctc cctaagagtc ctcttac 407

<210> 21737
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21737

aacttttagct tgcttcacag atgtccagga aggacaaggc ggccgattta actagttttc 60
 ttccggagta ctacagttac cgcttttagga gcgctgtaca ccaacagcgc ttctaagcca 120
 tcaagggatg gtcgtttctc cgggagcgac gcgtccagct catggacgac gagtatactg 180
 atttccaaga ggaaataagg cgccggcggt gggcatcact gggttactccc atggccaagt 240
 tcgaccaga aatagtcctt gagttttatg ccaatgctnt gccaacagag gagggcgtgc 300
 gtgacatgag atcctgtgta aggggtcagt ggatccccgt tgatgccgac gctatcggcc 360
 aactcctggg atatccgttg gtgttggaag aaggccagga atgtgagtat ggtcagagga 420
 ggaaccggtc tgat 434

<210> 21738
 <211> 403

<212> DNA
<213> Glycine max

<400> 21738

ttgctatctc aatccaagaa tcatatatct tgatttcaat ttgtgcccaa tattctgacc 60
gttagattgt acaattagaa gaaagaatta gtgaaaattt agctataggg tggccaatt 120
tcagtttggt cccaaaaccc ttcttagggg aagagctact atagagttgc aacccttggtg 180
cctgtactaa gggggaaact ttgggggcca gggccatgtg aattccaaat ggttctgccg 240
aaaaaagttt caatccaaag acttttgata attatTTTTT aaaaaataa tataacgtgc 300
ctatcggagg aagattattg tagcaaaca gttctacatc atcaaatggg gttcctttca 360
ttaattttag gttgactacc aatagtgtgc gtataatata tga 403

<210> 21739
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21739

tgagcatcnc tttgatccat gataccttgc antacgaacc tatgaaactc aactaaacgg 60
aatgcgcacc tgaggggatt ttcgctactt tattgcgact nnggcagaga gtgactgctg 120
aaatatgac acttgagaca ctagtagatc gacaaccatg cgatacatTT ggataatctc 180
tcggtggggg catgctatat cttgcaatca ccgtgggcaa gtatacttcc tcaactttatg 240
agtacgttag cataatagcg tcgtagacga agaaataggc tagagttgac tctactgaat 300
caggattcta aacttgcttt ggacctactc acttgagaaa atatcaacat gtttcatcaa 360
tatttcctta ccacatgct gatccattca ttgaagctaa gattgattgt gaggcgacct 420
ctttgcacgt gatccgtgaa gggaacaaat gtgcaaatg ccttgaaata caagaaactc 480
ttcttcacag gatttgatat tctcgagcta tctcctctgc ctataccg 528

<210> 21740
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21740

tagcttttct ttaacaatgg gcgntgtctc taaatggaca tatatttatt cacatgcgta 60
 tgaattntat agccattgga cgtttaatat ttgcattcaa tgcagatact tcttcatggt 120
 agaaaattac tcttgtaac tttcatgtag aacacttcaa cagaaaatca cttcctttgc 180
 gtcagagcag gtttgtcata gtagggcgtg tcttttgata cttttgatct tcaaagtgtt 240
 gaacattcct ttgtgcttct tacgattcaa caaacctan gagaatacta tactgtctaa 300
 gaaagtctct gcaaaacaaa tttcaaacac acaatattaa atgaagctct tacatgcact 360
 ttttaatgct atatcagatc atggagtgtc tctgcta 397

<210> 21741
 <211> 337
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21741

cgtggctata cgagacatct ttccaaacaa agtcaggtaa gcgataactc gcctgtgctt 60
 tttcttccat gctatatgta gcaaagtcac tgatccagtc aagtttgatg agttggaaaa 120
 tgaggccgca attatactgt gccagttgga gatgtatctt caccctgctt tctttgacat 180
 catgattcac ttgattgtgc atctggtcag agaaatcaaa tgttgtgggc ctgtntatct 240
 acggtggatg taccgggttg agcgatacat gaagatctta anagggtata caaagaatct 300
 atatagtctg gaagcatcta ttgttgagag gtacatt 337

<210> 21742
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21742

tactttgcat ggaatgncaa gcttaagcct cgaaaaagtc atgetcaagc cccacgtgat 60
 gtgtagttct tcaagatttt cttgctttgg tcccaccatt agctattgct taagttctct 120
 tgcttcttta ttcgaaataa acaaaaaatt aagatgagaa attaccaaaa catgcatgtt 180
 aaggctattc taatttattt acatcataaa tgtaaaaaag ggcaaataaa gtttagaagc 240
 cctaaaatac taagataatt gcctcaaaat cactcaaaca aggttcacta ggtaattatc 300

aattgttttaa gatggaagaa gccaaatcta ttaatgagat gttcagtaaa cttacaatga 360
tcataatata tgtattactc cctcagataa attttttgtc tagtca 406

<210> 21743
<211> 296
<212> DNA
<213> Glycine max
<400> 21743

gggaagctgt atagttgcat gcttattaat gcaatgtgga tgcaacattt tggagtcaag 60
gttactcagt tggttggggg atatgtatta cagatcataa aggtcaattt gtgccaaacta 120
agactatatt ttccgctggt ggtcttgatc ttatctacgg tgaagctttg ggccttctac 180
aatgctttat cgtgggtagt acaattaagc cttccttccg tcattcttga aatggattgc 240
aaatccatat ataatcgggtg cttaatgaag tagcaatgta ttgagtgggc ttattc 296

<210> 21744
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21744

ttgctttaca tggagctacg ttaagactga agagggaaga gagccttcta gtagcaaccc 60
ttgactcgtt catgggggat ccgcagctac gacaacaaat ttgtgtcagt tgggtgctgtg 120
gatgagagag attgaaaact gcaccattgc cacgaatgag agagatcgac aaccgctaca 180
tcattcacgaa cgagggtttt tcaatcctga actctttcgc tcaattgtcg tcaacacacc 240
acatcaaact ctagccacca ccatcaaaag cctactatga acgagggaga ctgcaactgc 300
tccatgacca caatctacgg agaagggttn tgaactttga ttattataaa atcaaattaa 360
aaattattgg tgttttaaaa ccatcagtat gtgacaacta gtaaaaag 407

<210> 21745
<211> 381
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21745

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ggcttcctat cacattcact tgagtttttc aacgacaatg tgaattctga gaagtactct 120
caagaatata aggtgaaatt caataaagtg ttgaagagcc agtggggaat agatccatta 180
tttttaggct catatagtca tatggcagtt ggatcaagtg gtgatgattt aaatacaatg 240
gcatcatata tgaggggttaa cattntgttg tttgtgtatc ccaaagcaca aaggaggtta 300
acatagttct gagagggtggc atcatatatg agaccaggat caagtgttct attatgttca 360
atctcaccag ctcccatagc a 381

<210> 21746
<211> 410
<212> DNA
<213> Glycine max

<400> 21746
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ttttaatgta atttttttcc attatctatt taatgcaatg ttgtttttga tcattcatat 120
aatgtttata gggtaatgca ttgaaaaatg gttattttct aaaaaattat ggaaagggtat 180
ctaaataaat tcattggtag aaatagatag atatttggtt tgccaatttt tgcattcttta 240
atcttaatgc ggtttataat ttctatctct acaaacaata ttgggagaaa ggaataaata 300
atttacgtta ttcgtgtggt ataccaaaga tccacgtctt tatatatgtg ggtggatata 360
gggatgtcat gagatagaga atatattcac cattgcatta caagtaattt 410

<210> 21747
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21747

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aaaggaagac tgcttgtggc tatacaccct gaaaatagga ccgatggact gagtactgca 120
catggcgctg ctatcactag aagatatgac cttctgttta ttccccagta atacgtaata 180
tctttctgcg catacacttc cttttactac taatattgga gcatatactg cttatattct 240

agaatcatta tctgactatc cttaagcata aatgcatgac tgattatcat atgcaggccc 300

tg 302

<210> 21748
<211> 406
<212> DNA
<213> Glycine max

<400> 21748

tctgtttgca agttttgcat catcttgggg taacttctta atgctcttaa atcaaacaac 60

tatcatttgg aaagtagaaa gtatggcatg agaaaagcta agggcatagt gtgatacgtt 120

tgtcaccctg ctaatcggtc ctaagccact aaagacacca gtgactttat tttgtttctca 180

cgctatgggt gaaaatgttt tggacaacaa aagtgttaat taacttgaat tctatatcgt 240

caagggttga agcatttttt ttttaacttc taaaccttat ctttggattt tattttgacg 300

ggcttgagat cgatgggctc tgctaacaca acggagcgat tgcggataaa ggggccgaaa 360

agatgacagg aaatgccatt gcttcgtgta cctcatatat tgctta 406

<210> 21749
<211> 287
<212> DNA
<213> Glycine max

<400> 21749

aattctagtc aacaaagcaa aaattcttgt gtttaacact tttattttac ctaattgaca 60

ttattattgt atacagctag acttgtgatg gttttaagct tgcttttctt tttgattaat 120

gacagattac tgcactggtc acaacaaacc tgaacaaagt aattgatggt aattactacc 180

cagttgaaaa tgcaaaacgg tctaacttgc ggcacagacc aattgggtatt ggagtacagg 240

gtcttgctga tactttcata cctccttgca tggcatttga ttcacca 287

<210> 21750
<211> 394
<212> DNA
<213> Glycine max

<400> 21750

agcttttctt accggtgaaa aaacattgtc ggccagcgct tgtaaaaaaa ttgcgcaatg 60

<210> 21753
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21753

tgtaacctat tatgactntg atgaagagca acgcatatct cttggcctct gaantttttt 60
 ccttatcttc cagtgtgcc tttactctta ggccttggcc aaaagaatga gtatcatatt 120
 tatatgtttg ataataataa taatattttt attttttttc ttgatacatg taaaagacaa 180
 caacataaca taagttaaaa agatttaatt tcagttgatt gagttggata tatgagttat 240
 tataagtttt ttaattttca cggataaaaa aaaaaaagag aactaacaca aactttttata 300
 tatgcatatc aaattgaaac ggtaacataa tgactccttt tcctttaatt tgcttctttc 360
 aggagagatc atcatcaatt gacatggaat catgtgtgcc tccaggattt agattttca 418

<210> 21754
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 21754

agcattgatt gaggattgta ttgttcatcc ggtgtctgaa aatcccaccc aaggttatca 60
 aattcgagag tttaaaaaa ctgtaagag tttcatagac tcgactcgta aactcaactc 120
 atagactcgt aagagtctac ttcatataaa aataataaca aaatatctat aaataacata 180
 ctaattaaac atttcaacca tataataaag caaaatagta aatcataaag ttcagaatat 240
 ttaaataatc aagtctagta ataatacatg actactaaac aataacttgt aaagggttata 300
 gtagtggtag atcattctca ttgaggggtt gatgttatta gagaacaaga gtttgatatt 360
 attagaggta agaattttat atttgagaat aacacgctac atgaaggat 410

<210> 21755
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21755

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 cttttgtgcg attattttgg atcctcttta gaaatgtaca accatctttt tctttcttgt 120
 cagttggcat aggatctttg gaattgggtc agtaacttgt tgcaatgtcg cataaacctc 180
 acgtcccgat tatccatcct gcatgggtcat cagaataata gcaagcaagt tcaagatggt 240
 tatgttgcaa ctattttaaa tgttggttgg tataatctaga tcaatagaaa taactctaga 300
 ttcaaattaa acatggcggt taaagaacaa gattattgcg gatgttgctc ggcgngtaa 360
 ttatagtttg gaataaatat ctacgcccac gatccaatcc atcatgttat caattntaat 420
 aaagaaattg tctt 434

<210> 21756
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21756

agcatgatgt ttttgccatg ttaggatgag ttagacatac ccattctgnt ttagggtttt 60
 tgtgatgatg tttgtgatgt ttatatgctg aaattgctta tggaaaactg ttagagatga 120
 atggttgagt taacctaggg ttagaaagtg agaatgtgat gttatgagtg gaaaaagagt 180
 gaggctttga gagttggaag gttaagtctg aattctgtgg taaatggagg ttaaagtgag 240
 ttaatcctag cttgaaatgt catttaggac ttatgagaaa gcttggactg tgctagagag 300
 ataaacatat gaccaaagtg aacatagagt catttctagg gcaaatttgg gtgttgaaga 360
 gtcaaatttt gattcggatg gatattacgt gtaaatccat ttgaac 406

<210> 21757
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21757

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 tgaattttct tttggctgag tgaggagaga gaacagcttt tggctttaaa aagggttttc 120
 tcttttccta ttattttatt taagctatgc cacatgtccc catttgagtg gagcaaaaag 180

ggcccacttt ctcttttgat tgtgacccat acttagtcac aaaaagttag aaaaatctga 240
 cctttgaaac gctaaaatcc tgcctcggtt tgcgtgtcgt ttctctgggt ccagttcctc 300
 gcgtttctct gcgtccgtcg gggccagttt tcgaaagtag gcaatatata tatcaaaacg 360
 ctcaaaataa aaccccaagc gttgttcaga agttggtttc gttaaatttt aagtcgca 418

<210> 21758
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 21758

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 tgtgccatac atacgtaact ctctctctct ctctctctct ctctcactct ttatattaaa 120
 gctttccatt tcttagtttc aaaaaatttt ctttttctct ccacagaccc ctctcatggc 180
 atcttcttct ggtagtttag acacctctgc aagtgcaaac tccttcacca acttcacctt 240
 ctccacacac cctttcatga ccacttcttt ctctgacctc cttgcttctc ccttggacaa 300
 caacaagcca ccacaggggtg gtttgtctga gagaactggc tctggtgttc ccaaattcaa 360
 gtccacacca ccacttctc tgcctctctc tccccctccc atttctcctt 410

<210> 21759
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21759

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 cgagaggggg gatggattta atgaggctgt tcaaagagtt gaggcagtct gtggccaatg 120
 attggggagg ttacacgcct tccgttgttg aggaggataa ggagtttttg gagaagaagg 180
 aaaagattca ggagcttgag cagcagatca ctggtgcac tcaacaggtg ctatttggtt 240
 tttatgtttt cggatgaatca cagttggatt ctatttcaga tcattagtct gtgtgtatgt 300
 agctgtttta cttgtgttac attcttttac tgagcttatg accaatgttn taaatngtga 360
 tcatggttgc attatttgtg caatgtaata ttgtcacaat actttacatt gcgtgcaaat 420

<210> 21760
 <211> 420
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21760

agcttttgtg tacaaagaat aagaagtttc aaagagattc aaggcttgta aaggattttt 60
 ttagattgat tggattgatt taaaatgcaa aacaaagcct tgctttcata gactctccat 120
 gtctgggtcaa gaggaccatt tagaagagtt atgactttta gaaaaactta aaaccaatct 180
 gaaaaagtca aaaaccattt gaaggggttac atcttttgat ttattcagaa ataatcactg 240
 gtaatcgatt accaaatcag tgtaatcgat tacacaaagc ttnttgtaaa aagaatgtga 300
 ctcttcacat ttgaatttga atttcaacgt tcaagtacac tagtaatcga ttaccanaac 360
 attgtaatcg attacaactt tttgaaatca attggaacgt tgtaaattca gttgaaagct 420

<210> 21761
 <211> 420
 <212> DNA
 <213> Glycine max

 <400> 21761

tctatggagg ctggatcttt gagcttcaat gatgtccttt aatggtcatt ttccaccatg 60
 gagatgcagc ggaagacaaa ggagaagagg tgagaggagg cgccatccac taaggaataa 120
 gccatggaag aaggagcttc accaccaaga tgagccttgg ataagaagct tggagacgat 180
 gcttcaatgg aggaaaagaa aaaagggaga gaaagagaga taggggagca cgaaattgaa 240
 ggaagaaaaa gggagagaag ttgaactttg agttgtgtct cacaagactc tcattcatca 300
 aagttacaat aagtgttaca catgcttcta tttatagact tggtagcttc cttgagaagc 360
 tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag aagctagagc 420

<210> 21762
 <211> 400
 <212> DNA
 <213> Glycine max

 <400> 21762

ttacttacgt tgttcattct gaacgtacat cttcttgtat tgtttaacaa gggcattttt 60
 aggttcaaca aggacctgtg tctcacacgg tattgtaaaa aacagtggag ttcagagagc 120
 tggtagaagg ataaaaataa aaaatgatga actttacatc tcattttcag aaacatttgg 180
 atgtgcaacc ccaaactaac agaaatggaa aaaaaaaaaaag aaaaaataag aggaacgtga 240
 taaaaaaggc acggtaggct tgaaacatct aatgcatgtc ataatcctcc agaataaga 300
 ttgaattttc atctttcatt tcacccgtag tgagggttga acgtttgttc aaactaacag 360
 aaataacata gcagaatgtt atcaccagaa tgatgcttgt 400

<210> 21763
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 21763

agctggcgtg aaatggcttt atgtgattct ggcacaatct aacgttaacc atgttcaatg 60
 aaagtaaaat acttaaatta ttactctaaa catacttttt tttttacaga taatctaaag 120
 atacttgggg tattgaacgg gtctaaaaaa tctagacatc aatattaaat ggatccttta 180
 aagagatgcc aacaagggtga gtctagactg agttatggag aaagattgag tcggatgtcc 240
 ttttaaagga tctggctatg tcgttctaac ttctttgcct ttgttcgagt ttcccatgta 300
 ctcaaccaaaa aaaaaaacag ttcttgacat caattctatt tcttatatat ataataag 358

<210> 21764
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 21764

ttagctttgt ctcatgagg tccaggaagg acaaggcggc cgaaggaact agttccgctc 60
 cggagtacga cagtcaccgc tttaggagcg ctgtacacca gcagcgcttt gaagccatca 120
 agggatggtc gtttctccgg gagcgacgag tccagctcag ggacgacgag tatactgatt 180
 ttcatgagga aatagggcgc cggcgggtggg caccactggc tactcctatg gtcaagtttg 240
 atccagaaat agtccttgag ttttatgcc aatgcttgcc aacagaggag ggcgtgcgtg 300
 acatgaggtc ctgcgttagg ggtcagtggg tcccgttcga tgccgacgct atcagccagc 360

tcctgtgata tccgatggtg ttggaag

387

<210> 21765
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21765

gtgaagattt ggtctttgcc agtgaattga tcgatgttgg tatgaaaaaa ggcaaattta 60
gncatgctgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag aaagaggag 120
aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180
cattactcaa tcaataacaa acctcctcct taccaccac ccagttatcc acaaaggcca 240
tccctaaatc aaccacaaag cctgtctacc gcaattccaa tgacgaagac cacctttagc 300
acaaacaaaa aaaaacacca accaagaaat gaattntgca gcgaaaagcc ctgaggattc 360
accccaaatt ccggtgtcat atgctaactt gctcccatat ctacttgata acg 413

<210> 21766
<211> 406
<212> DNA
<213> Glycine max

<400> 21766

tcttctttgt tctttttata aaatgagaaa ttctgaactc atcacgttat ctaaaaaacc 60
ttgggggtgga tccaagtgct ccgatcattc attttcatat tcatgttttg gtggcatgct 120
caccgttggt tgtttcttta gggaattcac cataactaag aaagcacaaa ggcacccta 180
taacactcga tccagaaaaa tggataatga agagggcgtg caagagcaga tgaaggccga 240
tctattggcc ttaaaagatc aaatggcttc tatcacggag gccatgctaa aactgcagaa 300
aactctagag gataatgcca tggcaaccgc ctccaatgca gttagggag cggaaccagt 360
gctacagccc acgataaact tgggccgaga tagaaacccg acggtg 406

<210> 21767
<211> 398
<212> DNA
<213> Glycine max

<400> 21767

tctaaacgga tctcatctag ctcatTTTgt tgcaactttc tttcctctcc agcctgatca 60
atagagaagt tgcaggtctt tacagcccag taggctttgt gctctatctc tacaggaaga 120
tgacatgcct tgccaaagac aacccgataa ggagacattc ctatgggtgc tttgtaggca 180
gtcctatgcg cccaaagagc atcatctagc ctggtgctcc aatcctttct gttcggctgc 240
acaatcttct cctagatcct ttttatctcc ctgcttgaaa tctcagtctg cccattgggt 300
tggggggtgt atggtgtgtg tcgcaacctc ccctttggcg ggcgagcgag gtgagggctc 360
acgggtgcgt cttccatagg aggaaaatgc gcggagtc 398

<210> 21768

<211> 409

<212> DNA

<213> Glycine max

<400> 21768

tagcattata ctatatatat atagtatttt tttataaaat attaatgttc gagggtatag 60
ttatcgctct tcgtccttaa ttaataaaaag cgaattagtt aagagaatta gagaaacaca 120
tgagggttga attgatagga aaaagacaaa taatttgcaa attaacatgg tgcgaactgg 180
gaataacaaa aaaaacacat cacctatatc attatctctg taaaaataag ataattattc 240
atttattggg attggggatg agaccggata tttatatcta attttttgtt aaaataaatg 300
taagtatgaa tactataata tccatattgt cccacacatg tatatcatat atattaaata 360
ttaatgtaat taaaatattt ttcttaagta aataattata ttatacata 409

<210> 21769

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21769

accttagaaa ctccgcttca atattagggg cataattgat tttaatntaa ttctcttatt 60
ncttttgtat ttgactaaat agtaaatacc aacatcatat gataattgtt agccttatct 120
tgatttcaaa ctactaacgt ccgtagtctt ctcgctccatt ttattgatac ttgattcaag 180
gaattggttt attcttttgc atgcgattaa agatctcccg gacgcccaga aagtcactga 240

cagaagtggc gaagttgatg gtgtacctca agaatgacta catccttagt gtgtattgaa 300
 tttcattttt attaaatatt aattatttat aatgaactaa ttatctgttg tgatattttt 360
 cttttggctg ctggataccc a 381

<210> 21770
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21770

ttgcttctaa tttatntatt nttaaattgt attctcatta tcttattgaa atttctcatt 60
 tatcttttaa aagtctcact ctctttcgct tgtaattatt tctaactcaa acaaaattat 120
 ctttgtgaga ctcattccatt cattttgtta aatacaccct cacaagaagt tttattattt 180
 tgaatttttt tacacaattt cattactaca actatgcggtg cgtgaatgta tcaattttta 240
 gtcctcgggg ttgatcttct tttcactaat ttcaaaaatc taataaaaacc cttttaatta 300
 agtataattt tatttgaagt agacattatc gtattgtgac taacaattgg tttaaataat 360
 ttactctaca tataaatata aataggtatc ttaaacagaa catttcta 408

<210> 21771
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21771

cttcagatta gttgtttatt tttaaatgaa ttatctgatc agtaaaaaag gagtcgaata 60
 gtagtattta taagcctaata atcaattggt taaaatttat aagttaatat aacactaatg 120
 tatctaaagg aaaattaaaa aaaagaacca aaataatata atacatttta aaaatataaa 180
 aaatcagaat gaaaatttta aaatttaattg tatatataaa gtgaaaaatt gcataacata 240
 agtgccatta agtctttttt attatatatg agaagagtga aaaaaaaaag aatgggatat 300
 tttcatgctt cgatttaata cataacaaat cttttgaaaa attaggatnt gtgttggtga 360
 atattttact acaaaagatc taaatcttcc tact 394

<210> 21772
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 21772

tggcttgcaa gctttgacca tttgaatggc tcaagcgctt ccattgttca atatcgagcg 60
 tctcgatcta ttatgcgctt gaatcggacc tccgagtga aagttaagac catttgaatt 120
 gctcaagagc ttccattaac caatttcgag ggtctcgata ttttatgttc ctaaatacaga 180
 cctccgagtt aaaagttatg tccatttgaa tatctcgaga gcttccgttg cttaatttcg 240
 agcgtctcta tatgtgatgc tcctgaatcg gacctccgag tgaaaagata tgaccatttg 300
 aatatctcga gagcatccgc ttttcaatth cgagcggttcc tatatgtgat gcgcttggat 360
 ccgacctccg agttagaagt aatgacca 388

<210> 21773
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 21773

aggcttgccct gagctgaatg actcaaccag ttgaaaccgg aagaatttga ttttaaaaat 60
 tgggaagggg ttggggaaac ccccataaca aaaaggggca aggacacctg gaaatagaga 120
 agggcgctccc aaaatagaca tgaaaaagga aaagaaaacg aggataaaag cgcaacaaaa 180
 agggaaagca aaacgattga agggaaaaga aaagggacca catgaaatgg agcagacaag 240
 agacaaaggc actagacgag cacc 264

<210> 21774
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 21774

tggcttgcaa gcttggttcg aggtacttac ccgttgaaga tcgaagaacg atgaagaacg 60
 aatgaagaac gtcgaagaac ggttgaaatc tttgcgaaat tcctcacgga aaacgttacg 120
 gaaacgtttc ggaagcgctt cggcttagat tttcttcacg gaaacaatth ttccaagcaa 180
 attcgaaaga gagagaagtg ccaaaggggc tgaaccctt ccttcttcac ttcctcccct 240

atttatagca aaatagggga ggtggttgcc gccagctcg cccaggcgag ctgagctcg 300
 ctaggcgagc caggttgctt cctccagaag caacagcctt ctggaggaat cttctggagg 360
 gccaaagtggg cctgggtgct atttgaccc ccatttctac taagta 406

<210> 21775
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 21775

gcttgaggat tatggggtac ccattacatg tgggtactatg tggcggtcgg gcgatggtgc 60
 acaacaagtt ttccacatcc acaatgcgag cataaaccac ccatccctg ttgccacct 120
 ccaactgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 180
 ccatcaatcc tcccaagctt ccacaacatc caagcaaac aacattcaca cagcacaagc 240
 tatcacagcc aagcaaaaca aagcaaaggc agaaaactct gccaaaacac caaccaaaaa 300
 tcacagcttt tcccactcaa agaccccagt aacaattcct tcgattccaa ttgttaaccg 360
 ttggatcgac tccaaaattt tactggaagt ctatagtga ta 402

<210> 21776
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21776

agcttcggta gaaagtgatg aggtacaagc cctaaaggca gagcttgaaa gagccccgggt 60
 agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120
 ggacgtcaat atggccaccg ctgaagcttt ggaacgagaa accaagaagg cctgaaagga 180
 agaacacgac caaagcaaag ttttgagggg ctttatatgg cagaaatagt gagctcaagc 240
 tccgaagagg tgagaggaat catcatgggt caaaggcatg atcttgaagg acgagctaaa 300
 ggcttgctt angtcgaaaa gaaatttgct ccaacagtta agcgagactg aagggaatat 360
 gtgggccgctc atcgatgagt gcaaagagaa actaaatcta gcggcgactc ac 412

<210> 21777

<211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21777

actcacgctt caatatgttc tcagttttaa cttgataatg caggaggctt gaatgtgtaa 60
 ngagaagcag acagctggga ccttggagta ggtatgtcac atgagaccaa tatatttggg 120
 ccttaaataa ggctgggtct taattgaacc ctgnngcgca ctttgtgggg ctcggggatg 180
 gggccttagt tttagtcttg cagattgttt gccttatgag gatgttgaat ttcttgaaat 240
 tgtcatttag atatggtata ttagaatcat aatggatgtt ctgttttata ttctaccctt 300
 gtttttgtga ctacgtggct aaactttcat tntatatact gcttatacac ttagtaatga 360
 aaatttgtgc atatatttgc ttaanaaaat atttgtgcat atagaagtac aattntcatt 420
 acccaattct atatttgtgt aag 443

<210> 21778
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21778

agcttttagtt actacgtgac cacaaaattt tatattgagt gtccacgtgg atatgttcta 60
 cgattggttt tgcataaatt tctaattgtc ataacatatg attcatggat gtgatctggg 120
 cattctttat ttctaagcca ttggccaaac agctgtccca atgtacatta ttttctgcca 180
 tttgcaatcc ttttgagcca aacatttgat ttttaccaga atcctgacct angatgaaag 240
 tttcctacct tactctagga taggagagca ggggtgtttt tcaagggaga tttctatcat 300
 cttttggcta gacatggatt tttaaaggga gttaaattatt catcaaaca aaacaaaaga 360
 gaagataaca agaaaggaaa agaaaatcaa tcaaagatgg aaaat 405

<210> 21779
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21779

tgcttgtggg gcttctatgg aggctggatc tttgagtttc aatgatgttc tttaatggng 60
 attttgcacc atggagatgc agcggaagac aaaggagaag aggtgagagg aggcgccatc 120
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttgggaagg atgcttcaat ggaggaaaag aaagagggag agaaagagaa agggggggagc 240
 acgaaattga aggaataaaa aaggagagag agttgaactt tgagttgtgt ctcaagagac 300
 tctcattcat caaagttaca acaagtgtta cacatgtttc tatttataga ctacgtagct 360
 tccttgagaa gatttcttga gaaaacttcc ttgagaagct tctt 404

<210> 21780
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 21780

agcttcttat tttcagataa tgcagttgag tttgtagcta cctcatgcac tcttctaattg 60
 actatagcat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tatttcggag tccttcataa aaatattgga gaagcagctg ctctgaaatc 240
 tgatggtgag ggcaactggc acatagtttt ttaaattctt cccagtattc atacaggctc 300
 tctccactga gttgtctaatt acctgagata tccttcttga tggttgtggg cctagaagca 360
 gggaaaaaat tttctaagaa tactctctta aggtcatccc agctcgtgat gg 412

<210> 21781
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 21781

ctgggcccac gataaataaa agtatgtgtt agacattttt attaagataa cttgagagag 60
 ttgactgtta gcaaatcaca cgtgatgggt gtgtaactta tgtgtgaact tgtgcaagaa 120
 ttttgtttgg atattttgga atggattgtt ggacctttag gtcataatttg tttgctagtt 180
 catgcgggag aatagagact cacctataca cccaacattt ttcaaataaa cttatagatg 240
 tagttcgttt atcaaagaag aaatggattt cactacatca atcactacca gtgtagatgg 300

acttggtcgt gaaagaaaga cctttcaagg ataccgtag acattggatg acccaaccat 360
 cttttagagt tttgatgaaa acaaagatat aaatatgtgt taatcaat 408

<210> 21782
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 21782

agcttatctt ccataaatc ctatctttaca tttacaaca atcaaaattt gactatgggt 60
 caattataca ttttatacgc gtctttatct cacttttaca aattgagctc agatccatta 120
 tgataactat tacataggcc cagaaaaaat ggggatcatt taagaaaaag ggagataaaa 180
 gaaaataata gcaaatcgtg tatgggtacct aatagagctt cttccttcat caaactcttc 240
 ttccatatac aaattattct caaaattatg tcaccaaaaa attcatttcc ttcttttctc 300
 tttcaaatca atttttaaaa gtatataatg taaagaaaa atgggcactc atttgaaaa 360
 aagggtgagc aaagaaaata ataacaagga aattcatggt atgaacatgt a 411

<210> 21783
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21783

acttaaccct ggcatttatc aagaaattta ggggtctatta tatttatact gaagacagtt 60
 gcaagtctgt actttgttca catttcaaac tcagtagatc ttcacttcan aagactttgg 120
 ttagagatat aaaactatct ttgtacattt catttatcca gaaatttagg gtaatattat 180
 actaaagaca gtcgcaagcc agtaggttca tatttcaaac tcagcagatc gtaattnttt 240
 agaagttcac actgagaaaa caaatgaac aaggccgcct aacttaagga tattttcctc 300
 aagataaaat ccacacatc ttgtaagaac tcagcccaac taggtggaaa tgcaagctca 360
 c 361

<210> 21784
 <211> 392
 <212> DNA

<213> Glycine max

<400> 21784

agcttgcttg tacaatctat ggcttggtga tgatgacaac gtctgatgtc atgaatcaca 60
cacacacaca cgctgtttga tagtcgagca ctgcgatata tgtccattct cccacttagt 120
ctttgaattt atgctcctct taagagtaag ttgattactc atgtgagtta tggagttaat 180
ccctatatct atcccccttt ggcatcaaca caaaaccaa gtgcatgact agtacgaagc 240
attcaaagac gactaatcat ccacacaaca tgcattggaac aatataaacc aaatcatgag 300
gcatgaacca tgaatagatc atatatatag cagccacata tgtaaataac ataattaatt 360
ttgggttcaca cataccatgc caataaagaa at 392

<210> 21785

<211> 304

<212> DNA

<213> Glycine max

<400> 21785

tagccctaga ggtgatggac ctgcacaaga tctggagtgg atcaataaca atgcctatag 60
gtcggacctc ccatataagt gtggagtcag cccactctt aacattactg agatacttac 120
ttatgcacgt gtacatgatc tggatgagga ggaactaaca gatttgacgt cccatcctct 180
gccatgagca aggcattgat caatccttcc tatgacggga ccagccacta tagccatgag 240
ccatagctc caagaggatt gggctagagc acctgatgac agccctaagg atctcatgaa 300
cctc 304

<210> 21786

<211> 406

<212> DNA

<213> Glycine max

<400> 21786

agctttgcag atttggcctt cgccagtgaaggatcaatg tgggtccgaa aagaggcaaa 60
tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgaa 120
ggagaaaccc atgctgtgat tgccattcct gtacggccaa gtttcccacc aaaccaaca 180
atgtcattac tcagtcaata acaaacctcc tcttaccaca ccaccagtt atccacaaag 240

gccccaaacg agagtaatga ggccagctta ccttccagac tatgcgtaag gagagaaaat 180
 ggattagagg gatactgccg atataacatg ggacaagctt aacggtattg attctgtgat 240
 attcctgttg caccacatag ataat 265

<210> 21790
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 21790

tagcttctca aagtataaac ctttgcagta tagttagcaa gtttttcacc tagatgataa 60
 gaaactacct agatgaaact ctctttacat aaccagctaa ctgagatcac aaatagatca 120
 agaagaatga gatagaagaa tgaagatgat gagagagatc tagaaatcta gattgagggg 180
 taaactttct ttggaagaga gtggttgaag aggaagatgt gaatgatttc ctttgaccaa 240
 taaagaatat tccaaagggtg tggttttggt agattttatg atcatgctct tggatttgag 300
 gtgaacaagt ggttcaagtt gcttgctggc tttttgttga gagtgatgct ggaccgattt 360
 gagacgcgta cctccgtagg gtgccatcac atggaaagta aataaaa 407

<210> 21791
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21791

ttataagaac aaaattgcct taatcatttt caaatatggt tgtgaattan gacgcatcaa 60
 caagaatcaa gccaaaggcta ttgtgcaagc aatcaatggg gcaaaacaca ccaaatgatt 120
 ataatgatgg atggctcaaa ttctcacaaa ggtaaaatca tcactttcaa attgagcttt 180
 caaaactatc atgacatgta gagaagaatc aaggatttca agtcacaaaa tgtcaagaac 240
 ttttattttc aaaacaatta cccattttctt gaacatatcc tataattcan agaaaaacat 300
 gcaaagtcgt acgtgcacac gaaaaatgac ccaaatatta aactgaaaat ccgacgaaac 360
 taacaacatt aacaaattaa cacaactaac aaattacaaa accaacaanaa ct 412

<210> 21792

<211> 393
 <212> DNA
 <213> Glycine max

<400> 21792

tatcttgaac cataaccggt gagagtgtga tcttaaaccg tgagtgaacg actagctttg 60
 agtaatagtc tttgcatcaa tctctgaaat ttagaatgga atgtatgaat gaggacatga 120
 tgaaggccat aattgtgtat atacaagcca agtgacccaaa aagcttacct tgaatgataa 180
 ttgtatcctt tgcacccttt gtgagctgaa tgacattttc aaaattgaac cctgaacata 240
 aatgattatc tccagatagc ttgttttagat tctagcagag cagatagctc aaggaaaatt 300
 accccaaatt tgggggagtt gattgggatg taaagtaaaa ggtaaagcat cggcacacat 360
 aacatataag ttgtgtgtta aaaaaaagag gag 393

<210> 21793
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 21793

tccatcacat tgataccttc ctaaagaggt ataacatgta aacttagaag tgactatttg 60
 ccaataggaa ttggagtcac tctaaatatg gaggattttc gtaaaactca tgaagtgaga 120
 gagtacataa ctagagtatc atatgctagc atagtaggag ctattgtata tgacacgatt 180
 ttcacatggt ctaatatcat ttatgcacta ggtgtaacaa gttgatatca agaaagtctt 240
 ggaggagggc attgaaagtg ggtaagacta ttcttaatac ttaagaagaa ctaaagacta 300
 tgcctcattt atggagacac aaaattaaaa actaaaagta gtttgatgag cataagttgg 360
 aattagtaat ggaatacatg agtgatgggc tctagcgcaa gtggaag 407

<210> 21794
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 21794

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tggttgacat caaagggaga acgtagtctt gaacaccaag ctcatacaac ccggctttgc 180
atgtctcaag gttagtgaga gctgcgctga gccatgtttg ggcatcaact tgtgagagct 240
tggtgttatg ctttatgggtt tggctgagat tgcgaatagt ttgctcataa agctcaacac 300
aatcagccca tgcaactctt tac 323

<210> 21795
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21795

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aagcccattg acacaagctt ctcttataag aattagggta tattttaagt catctgcaaa 180
ctcatccaat acacaatatt ttataattta taattatttt aacagttaat tatgagtaat 240
aattctttta agttaatata ttttgcataa tgcacctctt tgctttgata gctgaccttg 300
aactttcagt ctagccttat cctcttaagg acagtattct catttaggcc atctgtatta 360
tgagccactt aagtcataata cgctcgggt a 391

<210> 21796
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21796

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ancaactttg ttgcagctat ataaccagcg gccttgaggg gctacaacca tagatgacag 120
ccacctgag gcctaccaa gagatgaatg gagaggtagt gtagaaacag gcgtgagccc 180
atgcggggac acacacctag ctatcgccct agataccctg agactaaata taaccacta 240
cagcaaacgg cttgtgaaat atcccagacc cagttacgaa gtttctgatg gacaacaacc 300
cagagaacaa tggaaccag ctaggttgtc atgaccagaa cgggacgtgc ggcaaacat 360
ctaggtccta acaggagaaa agccgct 387

<210> 21797
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 21797

ccatagctga actgactgaa ctgaaacccc aagatatacg cgaagaatac tcttttagaa 60
 cctttggagc gaggagtcca ccagagcaac caagccgtca cacaagcaa cgcaaacagg 120
 ggaaaaaatt agcggccagg ggcacgggaa agcaaacagc atatgagcta ggaatggaga 180
 gaccaaagga cactaacaga cacgccggaa gcaaaccttg gggaggagct tcacaaaaga 240
 caaatgccca agaaagcgcg aaaaggcgct agcgaactat gacaaatggc aaggag 296

<210> 21798
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 21798

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 tacaccacaa ccccccaacc attgactgtc tcaaatgctt tactgtatcc cacaggattc 120
 ttttactatt tatatcacat ggtgagtaaa tagtaacaat tgtgactatt tgtgcttctt 180
 ggaccatttc cccaaccatt aaaataaagc cagtaccact gattttcctc tgcaatctaa 240
 aagaattatc accccacaaa caaagaatgc cacctgctga atttatagct ggcagcattt 300
 cccaatttat ctctacatgt ccccataaag cctgacacat ggctttgtcc accaactcta 360
 tctttgtctc ttgaagacaa atcatgtcca ccccc 395

<210> 21799
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21799

tcacttggtt caggcctaatt gtgtttcgtc aagagcagac ttgacagatt cctagtgtca 60
 gatcaatggc tagtcatatg gctgacaca tccaacatg ttcttcacag agattactct 120
 gaccattgcc cggaattttt gaaaactaaa ctggttgatt ggggtcctaa gcccttagg 180

gtgctggact tatggctcaa tcaaaaagga tatcaaaagc tgggtgcaaga gtcttgggtct 240
aaggaccagc aggggtggatg gnggggcatt gtccttaaaa acaagctgag aaatcttaaa 300
aataccatca aacaatggag taaagcta atgctaatag aatccagaag 360
ttgagacaga agcttaatga cttggaaact acagct 396

<210> 21800
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21800

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ttgtaaaaat aaccctacct gggtcattttg ccaaaaaaaa acttttatca acaatatatt 120
tgtgattcag tggaaagcaa gatctaaggt tgtatatatc cttaaactcat tgttgtgata 180
atattgatgt taatattcat tttgatttca cttactatta gcatctttca ttgaagaagt 240
atgcttatac acgaatgaat ttggagcata tacaatcaa atgatcgaac tatacacaaa 300
tgaatttggg atgtcactcg gtttcttgaa acatgtgcag gagcgtcgtg aaaaacattc 360
tggcatcttg tgcatgcact tcttcctttc aatntgccaa cgatcaacaa a 411

<210> 21801
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21801

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ggcagaggag agaccttggc gccgatgagg attaactacg ttaggggttaa ggtcgcggat 120
gtgattcgca acgtgaagat cgtggtgcat agtgtgtatt tgccgtttcc acatattaat 180
cctgtggctg cggcttatga cagtatctta ngcggtggtg aaggagcgtc ggaaggagcg 240
gggaatattg cagattctgc agatcagacg acgcaaggga cgtgttctgt cgttgacggg 300
cgtggaagtt gcgtcttgcc tacgatgcct gatcaggttc aggtcaagcc aatggtggag 360
atcgaagacc accatggcct gtgaataatg ccatatatcc atccacgatt atcttttctg 420

aagtgaaact t

431

<210> 21802
<211> 409
<212> DNA
<213> Glycine max

<400> 21802

agcttcccat atatggagag ctaaactctc tattggttct tccttatagg tacttgatgt 60
aaatacctat atatctatct aatgatgttt tatgtgttct ctgtgctatc agtacatcat 120
ttcagtgtgc ttttgccttg atcacgtaga tgcagtcttt gttaggatca ttcaacagtt 180
gaaactggtc tgattcttag aatttgatag gatagggcta gtttatcgta ttatcacgag 240
ggatcagggg atggtaacct agttgtttgt atgtttgtct taatgcagtt ctagtcgagt 300
ttagtccaac aagaggaatt tgaggataat gcttgatcag gattaggcta gactatcacg 360
agggatcgag gtttagcatt ttaggagaca ccatagaaca catgagcat 409

<210> 21803
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21803

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caacccta atctcacatg atcttctaac actgttaaaa tcacttatca cacaccatac 120
ttttgtatta ctgtcttat ttctcctcct aagctcccc cacactcttc tttttgtcc 180
attgccgaaa ggaatataga cattgccaat ggtaatagcc accccattct ctttccaaca 240
tcccttaaaa gcaatgcatt ctgtgccat aagtgatatg aaatttccaa gaaggccgga 300
cccataaac acaagagagc tattgcttaa tttaaagccg gagaagccaa actatgttta 360
agcataaaac tgaacccctt ccttcgtcac tatgtttcag atagatntcc acttcacct 420
acta 424

<210> 21804
<211> 409
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21804

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tcggctgaaa aacatcagtt ggggctgttt aactaccgat gctggctact gttttttcta 120
ttccaccctt gaataatact tggacgatgt cgatttgga atgttcgatc ggagtcaccc 180
ggatcatgctt ctttttaaga cctcgatctg tcatcttttc ctggccgacg tcggctagca 240
tttttttcga tcaatatcgg tgaatcatgc tttttgccaa ggtgggctaa cgttttcgtg 300
gctcatgaaa tgagagcatg ccagtgtcgg ccganacaca atctcgcacg aaaaacccta 360
gccgacctac attgtaattt ttgtaggcaa taccgaacag caaaacttc 409

<210> 21805

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21805

ntgcagcaga atttagtaat gaccactaa cctagaatta aaataattta ttgccattaa 60
cctaggggaat taaaaaaaaac ttaatggctg agtgtaactg aaattgtggc aaccaaaaat 120
cacccecaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctaggt 180
tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240
aaccceaaaac atatttttgg tcagccaact ttacaaggat tgggccatta ttagacaaa 300
cactctaaaa ttgagacaag gtggtgtcat ttagtcctcc tccatttggg ccatgatata 360
actcacaacc ttggactntt ctccttgaaa cttgggcttg tattcaaata gtatggacaa 420
cacttggt 428

<210> 21806

<211> 412

<212> DNA

<213> Glycine max

<400> 21806

agcttgatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcaatggt 60

gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatcct cgtttctctc aacacgggt 180
 ccccatcaat cctcccaatc tttccccaac atccaagtaa ctcaacattc aaacaacaca 240
 aaccatcaca gccaagaaaa cagggcaaag gcagaaaatt ctgccccaaa caccaaccaa 300
 aatcacagct tttctcactt aaaggcccca gtaacaattc cttcggtcca attctttaac 360
 cgttggtatcg actccaaact tttactggaa gtctctagta cataagccta ca 412

<210> 21807
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21807

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 aaggtctgag agaccataca agtttccctaa cgatttctaa ttatgtgggc cattaagtct 120
 atcatatgct gacaatagcc gagaagccca tgaatctctt cggggggcgga gtaagtgtcc 180
 gccactgctt tggccttggc tagcaatcgg ggaagttctt gactcctgtt caaagtaaga 240
 gcaaatcggg ccgtccacat tgttgccctct tgggtgccatg aatcaattac cctctccctt 300
 gcttcgcttt ctgctgatat cttggcgtag tcatcctcta gcctttgctc gtgagtcgcc 360
 gctagatata gcttctcttt gcactcatcg atgacggccc acatattccc ttcagtctcg 420
 cttaa 425

<210> 21808
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 21808

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 gtgtgtatgt gaatgatcaa acattttttac tttatgtatc agcatcatgc ataattctta 120
 ttacatggg tatttcattt tagttaacat ggctaattggc taagatagca tattactaat 180
 taagaattac aggggtgttta aaaaaaactc ttggctaaat gagacagttt tgttgtcac 240
 atgacttcta ttatctttca tatcagaggg ctttttttaa tgggtataaaa cagtgtctat 300

tgcttaacat agagattctt attggaacca ggttgcaagt gttttgaaca ttttggatga 360
 tgagttgatc aagaatggtg gagacta 387

<210> 21809
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21809

tgttagaatt gttggtcaat accatcattt acgcttttat taaccaatga cataacttaca 60
 aagaagtgaag agaactatag ctagttcaga gatggtgaag atcgaactaa acaagttttg 120
 attaacagtg gctgtttttg ttttaatatg attagagata tagattagtt cagttaatta 180
 caagttaatt attaagttag ttaattagtt acaaattagtt tttttttgta accaattatg 240
 taacattact agcattagtt atataaggat gaatgtattc atataaaaaac tgatttactc 300
 attntagca ttatccaaat taatattcan gttttctttt ctcttttcat ctttctatct 360
 taactttatc aaatagtgat tggaacacat gc 392

<210> 21810
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 21810

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 gtatattatt aaactatctg tagcattgca tccattaatt ttttaattgta caaaaaataa 120
 gatgaaaaga ttataaaaata gaaaaagaaa ttgctttgta tttgttttaa attattaaaa 180
 aaatagaact attttttcgt acaagtttga aagcaaagaa gaggtattcc ccacagtact 240
 cacaattgaa gtggctgcat tctaataatt tcatacagat gttccttaaa tattgtgtat 300
 catttatagg aatcttcacc actcatatgt tatttatgga cttataaatt aacataatag 360
 agttaatgga ctatgtctaa caaacttttg ttcagagact aaaatc 406

<210> 21811
 <211> 343
 <212> DNA

<213> Glycine max

<400> 21811

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ggtttagggg tatttgacaa atgacgattt ttatgtagtt tagcacttag ggtttagttt 120
tacctgacta attcgggtta aaggttattt gacctattaa ggtcacttgc ctaattacgg 180
attaggtata ttcgaaaaat taaggttact tgactaatta tgatttatat gtgtctaact 240
gattaaggat atgaatacat gactgagtag ggtttatatg tacttgacca actatgggtg 300
agggttatat tacctatttg tttacagata catgactaat tat 343

<210> 21812

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21812

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agtggatgac gcctcctttc acctcttctc ctttgtcttc cactgcatct ccatgggtgga 120
aaatcaccat taaaggacct aattgaagct caaagatcca gcctccatag aagccccaca 180
agcaagcttc catcaagtgg taatcagagc acaagagctt caagtaggtg cttcttaaac 240
ctccattaat tttttgcttt accttctctt ccattgttgt ttcttcattt ttctccatgt 300
atctcctcac atttcttgct ctaaagtgtg ttaacatgat tcttttagagt ttccaccgat 360
taaacttgct ataaaagcta gatntgattt tctatg 396

<210> 21813

<211> 403

<212> DNA

<213> Glycine max

<400> 21813

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agctacacac ccctataat agctaagctc acccccatga gaaaaaacat gaaaatacaa 120
aaaaaaaaagt cgttactaca aagactactc aaaatgcccc gaaatacaag gctaaaaccc 180
tatactacta gaatttccaa aatacaaggc ccaaacgaag aaaaaaccta ttctaattatt 240

tacaaagaag agtggatcca accttgaacc atggactcaa aaatctaccc taaggttcat 300
 gagaacccta gggccttctt tagtagctct agcccaagcc tcttgagtc ttctatctaa 360
 tacccttgg gggtaggatt gcatcatccc ctccacctgg aaa 403

<210> 21814
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21814

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 ttgcaaaana ttggggcaaa agatggatcg tgtgacatcg ctcttcgtc tacggccaaa 120
 cacatttagg gctgttgata tccctgttac ttccagtttc accttgacgg agatgtcatg 180
 gaccatgttg aaaatctaaa ttgattcaac cccatatact gtgtaaaaat tcacaatact 240
 tcaattgtgc atcattcgca tacatccatg ttgttcattg gttgcattgc tcattgcatt 300
 ctttccttga aaagaaaaag agaacctaatt cattgttata aanaagaaaa aaaaaggcat 360
 gctttacggt gccctcaccg aacctatgct agagctagag taatgggt 408

<210> 21815
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21815

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 gttggacctc ccagaagagt atggagtcag catcactttt aacatttctg attcaattcc 120
 ttttgtaggt ggagctgata ttgaggagga agaactaaca gatttgaggt caaatcctct 180
 tcaaggggaa agggatgatg caatcctcct taggaaggga ccattcacta gaaccatgag 240
 caagaggctc caaaaagatt gggctaaagc tgctgaagaa agccctangg ttctcatgaa 300
 cctcaaggta gaattttgag cccatgggcc aaggttgggt ccaattatct ttgacatat 360
 tagactanga tgtcattat 379

<210> 21816
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 21816

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 ataatgcggtg ttttaacatta ttgcttcatg attgtttcct tttcttttgt gtgtgcagaa 180
 aatatacatg tacttccggg ggcataagt agactgttct cttctggatt ttgatccgac 240
 ggcttttata atgtcaatca cttcacaatg tggttagca tattcttttt gtctatcctc 300
 attttctcat acaatatctt ggtgtgatat tggtcttgtt ctttgtagtt accagggttt 360
 agtttgtatc aggggtttacg ttgtttgtac catactgtgt aatgaattct 410

<210> 21817
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21817

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 aattaaagta ttattatatt tttaaaaaga ataaaatgtc gagaaattag atcatattat 180
 gtatgttaca aagttacgta agtgaatatt atatgatcaa tgatattggt ttcaccttcc 240
 atggaactca gaaactgttg tgctgaaatt gaagatttgt gcaactcttt accaatcagt 300
 ttctcccaca tttgcacaac ctctctctgg gataatatgt tttcaggtgg ccttatgtaa 360
 actgtcttgt tccgtgttct ngggtcatct atggttttga tagtggacat agctatatca 420
 tcttcat 427

<210> 21818
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21818

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gggggattcn atcgtgcacc acagtcactt cctcttcgaa cctaaagctt gcgctaacia 180
agctctcgat gaggtgacag ggaggggcct ccttcacatg tgcccttagc tgtggggcag 240
tgccccgatt tctcttttcc tagctgtttt tccttatgtt ggcttgcgta ggcttatatc 300
ctaaacaaaa cctttcggag ttctctttga catccaccaa gtcggacctg ccgtcattgt 360
tc 362

<210> 21819
<211> 348
<212> DNA
<213> Glycine max

<400> 21819
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tcctaataaa attcgggttg ctgtttcagc agttggaaaa atgatttcgc cttcttggcc 180
attctcagta gaaatcaaga tagagccacc agtctatcga tcaacttcta tacttccttc 240
atgttttgtg ggctgcacat ggcagttcct acttcgtact tgtttgggtt ggcttcgac 300
cccctgcagg tgattcatga accaaggaac ttacccccct caaccctg 348

<210> 21820
<211> 401
<212> DNA
<213> Glycine max

<400> 21820
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acggaactct agcacaagag acttgggtcat cgtcatcttg aaagaatgct aaacatgaaa 120
aaaatgaaat atgcaaaaaga aaatttgaag aagtttcaaa cggaggaatg caaatctgtt 180
agtacacaaa tgaatcaaaa ggagaagttc agcaaggaag aaggcgttga taacattgat 240
gaaggatatt atgggaactt gattggatgt ctaatgtatc tcaactaac gagaccaaac 300
attctatttt ctcaaaaaga caaaactgga atttttgtga caatcaagta gtcattgcta 360

ttgcaaacaa tcccgtgtgt catggaaaga ctaaacattt c

401

<210> 21821
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21821

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attgccagag gaagttaaaa tacaccccggt attccactgt tccaagatga agtcttttcg 180
cggttcaccg aanaatatgg cggaattac ctggcacaag gagttactca acgaccaacc 240
cctcgtgttt ccattagcta tcttggatta ccgtagagca tccaccgagg atccctgnga 300
ggtgttcatt caatggaatg gtatctcacc tgatgatacc tcgtgggaag actggaatca 360
gctgtgtgaa aactaccacc ttg 383

<210> 21822
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21822

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tategctttt acttttggtt aagtttcaat tactgttctt tactttctta acttagtagt 180
aaaagcctaa ttaaatctag taacattaaa aaggataagt tttaattatt caaggtacaa 240
taataattaa ttcaaccccc cttctttaat tattctgagg ccacttgatc caacacctct 300
ggcatcaact gaagtttcta ctctatcgt tgctgcagat gttgtccgtc ctactgatga 360
tgttgtatta cttctgtctc tccacctcct tctactatgc ct 402

<210> 21823
<211> 430
<212> DNA
<213> Glycine max

SECRET

<210>	21824
<211>	405
<212>	DNA
<213>	Glycine max

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ttttcttttc	aaacacagag	ctatataatt	acagctgatg	aatagaagtt	caatagacat	120
gcttaatttg	gcaacctcag	caagtgattt	tattctcctt	ttggaaacat	actatatgat	180
ggtttatagg	tcaaatgagt	tatttgatct	ttcattttat	ttgttagggt	tattttgatt	240
ttttatcttt	taaaaaattc	attttaatct	tttatatatt	tatttaaatt	gatttaaaat	300
gatcttttca	tctatataaa	attgatgacg	ctaataaaat	aaaaatatta	ataactaaaa	360
attatcacaa	aatgtaattt	tcttctttat	cttggtgcttg	gtgtg		405

<210>	21825
<211>	423
<212>	DNA
<213>	Glycine max

tcttcgggtt tcatcctcta tgcaactcgc agatatcttc accaatgttt tatctccttc 60
tatttttcaa cacctttgta ccaagctggg aatgatgaat atccattccc agcttgaggg 120

ggggatctta acagcatctt gttagagtta gttatgatag ttattttctgt tgtaaccact 180
 ctctgtgcttg tacatatata agccctcacg tgcatttaaat aagatgagtt gcagttttga 240
 tcatcaagag ccaagcgtag cttttcactg caccacctga tttttttctt ctcaaaaaca 300
 tgagtttcac gttttttctt cagcttagtt caatatattgt tttcaacagt aagtttagcat 360
 caacaaatat ataaaatgct tggcagagtg tacattacta tactacctac gtgcttatct 420
 att 423

<210> 21826
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 21826

agcttggaac accaaattgt agaatgcata aaaataatgg cacagccata ggcaagctga 60
 aaatcaaaag atcctagcca gacgtatatg cttccccatt acatcaacca actggtgggg 120
 caggactaca ttaaatatct catagccttg ggaaaaagga aactgtccat cagctcaccc 180
 ttttttagcaa tttcagctaa cttgtcctat gatcctatcc aattctcgta taaaaagatt 240
 gatcaagctt atattttctgg attttatttc ttcatttcaa tgcccaatca gtgtaacaga 300
 ccttaccaca aacattctag gtgtcccata tttgtaaaaa aaaaaataaa aaaaaaaaaa 360
 cttcgtaccc ca 372

<210> 21827
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21827

gtggatcccg atagtattat tgctgcagct ctaatggata tgtatcaaag tatgggagat 60
 gctcttgccc agcaatacgg tggctctgct gctcacaata ctgtatgaca ttttggggga 120
 atctaaatnt atgtaatctg ccgacaaata tctaactgct tatttgcata ttcttctgca 180
 gctgttgtga tatatgtaac atatattttg gtgaatgaca ggtgtttcca gagaggcatg 240
 gaaagtggaa agcaacaaca caatccagag agttttttaa atccataaaa cgatactata 300

gcaatgctta cacagatggg gaanaacaag atgcaatana cttgtattat tccttccacc 360
tcatttatct caata 375

<210> 21828
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21828

agctttatat tgaatcttct aaaccttttc ccttgataaa aacatcaggg actaaattat 60
gccaatctct ctttcaagga cacattgtca tccctctgat ctatatgtc caatgctcct 120
ctatccacaa aatttaccat tctgtgaggg acaaaagcct taagtaaaat gagttgcttc 180
ttaattaaaa ctctatttct tctcgtagtg cttcttctgg ggaaagtact ccagacttat 240
ctatacatgt ggcatgacaa gtaccaatga tcaatgagag taagttattc caagattttt 300
tcaccagttg aaaaaagatt aaataccaca gttccaacca aatacaaccc aactgaaacc 360
ttgaaaacat catcccagga gcctgaanat agtc 394

<210> 21829
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21829

tgtatactga attgagtatg gcacacacat tgcattgtctg atatgccttt tagaggctng 60
aaaagtgcga gaaaacgagt tttgttttct gcattctctg gaaaacgtga tgaactcgct 120
aaccgagaat actgcgctaa gcgagtccat caatactcat tgtatataag atttatctga 180
agaaccagct aagcacactt attgcgctaa gcgagtccat cctttgagaa tgaacattca 240
tcctcttgct gaactacctg tggctaagcg aggctaaatc gctaagccta ggtaacttaa 300
ccattntttt tttgtgatag ccacgcgcta agctgagcat tcttgagcca agcacagggt 360
gtggcatccg ctgtgagttc ac 382

<210> 21830
<211> 397
<212> DNA

<213> Glycine max

<400> 21830

agcttgttct aaatttacat tgatgtttgt atgggaggag gttacatgcc atttttgctt 60
taagagtaat gtcccactaa aactaacttt ccaaatgttt gccttcgcag gaatggcacc 120
gaggaagctt gcctcaaaga ggtccaggaa agacaaggcg gccgaaggaa ctagttccgc 180
cccggagtac gacagtcacc gctttaggag cgttgtagac cagcagcggt tcgaagccat 240
caagggatgg tcgtttctcc gagagcgacg cgtccagctc agggaggacg agtatactga 300
tttccaggag gaaatagggc gccggcggtg ggcaccactg gttactccca tggccaagtt 360
tgatccagaa atagtccttg agttttacgc caatgct 397

<210> 21831

<211> 236

<212> DNA

<213> Glycine max

<400> 21831

atatcacctt ctttaattgta cacatggagc actgcgcccc caaatgcgag agttagaaaa 60
gaaaatattt cgggctctcg tgtccgtata atgcattcat atcatgcac gcataagcat 120
ctttcataa catcataatg gacatatcct gcatttgctc gttatatatt tcagcctcac 180
cttttgcag agtcatggca tcatcatgca tatgogttca acaaactctt tgatct 236

<210> 21832

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21832

ttagtttaat cttaaactta aaaggaattg aaacgtatat caattgaatt attctcgatt 60
atttaacaac tttggatgga gaaaacctac taaaatgac aatcagattn ttggatggaa 120
aatagctgaa taaacttcaa caaattgat taatacttta cacttttaat aagaaaaaaa 180
taattgtaca actatgtgat ttaaaatgaa gataagcatc tgtatactt tcacaatttg 240
gtttatatat tttgttcgca caacttgcac gaattacatt aacaaaaagt taacagacaa 300
ttaattaatt tattattata cattaaatga gtttttattt tgaaaaaacac aataatttct 360

ttacattctt tatttatatt ttttgcacgc acatctcttc tttattttt

409

<210> 21833
<211> 398
<212> DNA
<213> Glycine max

<400> 21833

ctccgctata ccttctagtg atcttgagcg cttttgcatt ttctctagaa gctatcggac 60
ttgttacttt cctgtatat gatgagagat tgcttaagaa ctgttctatt tgctgtgatg 120
acaagccagt gccaatatg attaccttaa aatgttctca cacattcttg tcacattgct 180
tgagggccta tgctgatggg aaagtacaat cttgtcaagt cctataaga tgccctcaac 240
caggatgcaa gtattgcaca tctgtaactg agtgcaagtc ttttcttcca ttcacctcct 300
ttgaatctct ggagaaatcc ctgtctgaag cgaatatatg ctgtccacat agaatttatc 360
tgccatatcc aaatcgctct ggtctccttg atcctcat 398

<210> 21834
<211> 387
<212> DNA
<213> Glycine max

<400> 21834

ttagcttctt aagttcctta agcaatgtct tttcagtaac cacaaaatcc tcaggatctg 60
ggagtttctt caccatcata tatggtttca attggataaa gccaaattca caagagaaaa 120
gttgaggctg ataaggataa aagctacatc tttgatattg agactgtcgc aacgtgccct 180
tcgcaggcga gcgagggcga ggctcacggg tgcgctttcc aaaggaggaa agatgcgcgg 240
agtcgccacc aacgtttatt cgtggaaaac gtcgggaaaa ccgaacgaaa gcggtcaaaa 300
tgaaaattct aagtcgggga gttgtattta cgctcgagga aggtattatc acctctcacg 360
tttgtctcag aggacaacag cctatctt 387

<210> 21835
<211> 419
<212> DNA
<213> Glycine max

<400> 21835

tctccttccct tttcctataa atagggggttt gagggattat caaaaatatt cattcctctt 60
 ggtatctgag aatcacttaa aattagtgag aaaaattggt tccatgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgct tccgagacgt ttccgtgggt gatttcgcga agatttcaac 180
 cgttcttcgc cgttctttgt ttgttcttcg tcgttcttcg gtcttcaacc ggtaagttcc 240
 caaaatcgaa cttttcaatc cattctatgt acccttagtg gtccccactt gtttcgcatg 300
 cttttatatt catttcattt actttccgta cccctttttg atgtgcttca gtcatttatt 360
 taagtcattt tctcgccctaa tccaaaataa gataaatttc caccgatcat tcgtattat 419

<210> 21836
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21836

ttagctttga ccaccgctct tcttcccg c aatgcttctc ttcatatctg cctgagtggg 60
 cttatagcct aaaccatact tcccacgatt tcttttgga tttatcaggc tagttatgnc 120
 cgccgttgct tttgccc aaa cccattccg gttcgtaacc gttccccaac ataactcggg 180
 ccatacattac tgctgcatcg gacaggcaag cttgcccaga gaaggagtcc acggaggaaa 240
 tgcttaccac ctcaaaagac tggaaaaagg tctctaata ctcctctacg gcttcgacat 300
 aaggcataga ggatgggcag ctcaccaaga tgcctcctc gcctgatacg ataaccagat 360
 gcccttcac tacgaatntc aacttttggt ggagtg 396

<210> 21837
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21837

tgactcacac caaacatgac aaggatgatca tgctntttca aataccttca caaataactt 60
 ccataaggca taaacctagt aaaactaccc atcatatctc ccaaacatcc aatacccacg 120
 aaattatgtg agaaagaagt ctacccaaac ctggaatttg aagtcccaca acgtagatat 180
 gcgcttcccg actccgaaaa tggcttcctt tcacgatttg gagcagaaat ggtgtgcaaa 240

ggttggagct ttgatggagc ttcaatggtg aggaaaaaga agagaatagc aacgtgaggg 300
agagaggggag aaaagcttct gaacttttgg gctgagttag gagagagaaa cat 353

<210> 21838
<211> 407
<212> DNA
<213> Glycine max

<400> 21838

tctgcttcat gatgatgaat caagttgatt caagtagttt tgatgatgac aaagatgatg 60
acaaaaagcc caagataatg atttcaagat tgagtcaaca agttcaagat caagattaat 120
ttcaagtttc atgagaagaa atcaagaaga ttcaagaatc aagagaagtt gatttcaaga 180
ttcaagagaa gatgaattca agattcaaga gaagaaatca agaagacttc acaagggaag 240
tattgaaaag atttttcaaa aaacaaacat agcacaattt tgtttttcag aagagttttt 300
ctcaaaattt tccaagttac cagagttttt tttactctct ggtaatcgat taccaattac 360
ttgtaatcga taccagtggc aaagtttaat ttcaaagctt ctaactg 407

<210> 21839
<211> 380
<212> DNA
<213> Glycine max

<400> 21839

tgttgtgcac catcgcccga ccgccactta gtaccacttg tgatgggtac cttataatcc 60
tacaagcttg agatgaggaa gtgttgaagg gtgaaacttc ctgcttttat tgttgaccac 120
agagtggtag ctggagatat gtcgcagggg tcaggagacc ttggggacgt caggtggggg 180
gctattgccc aaaaccaagc ttgaccaatc ccgacccaac ccgggcatag tcggtcagt 240
agaacctgtg atgtacctaa gcaggcgagc tcttggcagt caacagataa aaggaaaaca 300
agaccacaaa gcaaggaggc ttgtggtggc tggccagctg tgaattttgt gtaatatgtg 360
gattgtggcc tctggtaatc 380

<210> 21840
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21840

aaacaatgga tttgtcttca acttcaaadc ctagagggtg caccatgtaa actatttcat 60
ctaanaggcc attgaggaaa gcattattca catccaactg aaataactct caattattag 120
taagggaag agtaatgata agcctaatag tgatagggtt aacaacaaga gaaaacgtct 180
catgaaagtc aaaacatgg acttggtgaa agcctttggc cactaatcga gttttgtact 240
tggtgatgga ccatttcgca ttttctttta ttcgaaaaac ccatttacac cctactgcct 300
ttctattgga gggcaaggga actaaatccc aggtgtgatt cttagtaag gcagcatatt 360
caagtntcat agcagaaagc caatttgaat cagtgaagc ctggttag 407

<210> 21841
<211> 390
<212> DNA
<213> Glycine max

<400> 21841

ctttttaaat atacttggcc ttcatTTaac tggctttggg ctggcgggcc acgctcaaca 60
aagtactttc gacacctact gtacgttgat tTaccaatg ctgttatggg aatgttgca 120
caatccttta aaaccttatt gataattct gagagggttg ttgtcatgtg gTcatatcga 180
cgtccttctc tatcgtaaag catcgtccat ttttctttg agatgcgatc aatccatgtt 240
gctatggctg gactcagttc acgaaatTTt tctaaatTTt gatcaaaaat gtgcttgcaa 300
ggagtgtagg ctgcataaaa ttagttatga ataacaattt taagtataaa tgaaagtaaa 360
ataaatgtga ccatcaaata tgacatctta 390

<210> 21842
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21842

agcttctatg tttccattct atcatggta gttaaagtt agtgaaggag aagccaaaag 60
aaggttatTTt cttttaagtt tgactgcttt caagtcacat tggcttatac caaacaatta 120
aatccctaag gttttgatgt caacaaagta taaatTTtat gtattaaaat tTcatgctta 180

<210> 21845
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21845

tagcattntt ttttctgaaa tgatagatgt aatttcttaa atagtcacag aaagtacaag 60
 tccagggaag tactgaatta taacatgtat agggaggaag ttactaatga ttaatatgag 120
 aaataagaac aataattatt tactattaaa tcatatttga atgtttgaga ttgaaagata 180
 aatgcacaat acctttttta gtagtcatgt gactactaac taacttttaa tcttgatatg 240
 atcgaaattt ataatgctca cattcttaaa atgagattgt tctagttata tatatccctc 300
 ggattgggat gggaaggagt aaaagcattt ttcaccacaa tcaaagtctt taacagggat 360
 aacctgtctt tttttttata tcaattaat 389

<210> 21846
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21846

agctttataa ttntcatatg ataataagct tcacatagaa ggtaataaga ggtataatat 60
 ttcacaatgc aaagaatcta agaataaaac ttgttaagtt ctttaataaa gaatctcaca 120
 caaaaatata tatactaaaa gaaatcatca ttgaaaagaa aaatccaaaa taataacttg 180
 ctaatattaa tttatttaag tccttcccct tccttttttg tcatcatcat taactctagt 240
 tcatcaagaa taaattaaca attttaagaa ttttattctc atcaagtgat ccaaattcat 300
 ctectacaat gtctacatt ttagtttcct ctgtaggta ttgtaggaaa tttcttgaaa 360
 ggagacgaag attgttataa acaaatacta gatcctttgt ccaatgaggt gt 412

<210> 21847
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 21847

tgaagaggat gctttaatgg aggaaaagaa agagagattg gggcagtatg aaattgaagg 60
aataaaagag ggagagaagt tgaactttga agtgtgtctc ataagacttt cattcatcaa 120
agttaaaaca attgttacac atgcttctat ttatagacta ggtagcttcc tcgagaagct 180
ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttcctgggga agctagagct 240
tagctataca caccctcta ataactaagc tcacctcctt gagaagtttc cttgagaaga 300
ttcctaaaga agttagagct tagctacaca cacctctcta atagctaagc tcacctcctt 360
gagatgagaa gctagagctt agctacaccc cctataatag ctaagctcac cccatgccaan 420
aatacatg 428

<210> 21848
<211> 406
<212> DNA
<213> Glycine max

<400> 21848

agcttgcctt ttagagatcc aagaaggata aagcagctga aggaaccagt tccgctcctg 60
aatatgacag ccatcgtttt aggagtgtg agcaccagca gcgcttcgag gccattaagg 120
gatggtcatt tctccgggag cgacgcgtcc agatcagggg cgacgagtat accgacttcc 180
aggaggagat agttcgccgg cggtgggcat cgctgggttac ccccatggcc aagttcgacc 240
cagacatagt ccttgagttt tatgccaatg cttggcctac agtggagggt gtatgagata 300
tgcgatcctg ggtgaggggg ttagtggatc ccattcgatg cggatgctct cagccagttc 360
ttgggatatc ctttagtgct ggaggagggc caggagtga agtatg 406

<210> 21849
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21849

tcatgacgat gaatcaagta tgattcaagt agttttcatg atgacattat gccaaaaga 60
atgatgtcaa tattgagtca acaagttcaa gaaatcaaga agattcaaga ttcaagagaa 120
gttgatttca agattcaaga ttcaagagaa gttgatttca agattcaaga aaagacatca 180

agaagaatca agattcaaga gaagatgaat tcacaaggga agtattgaaa aggatttttc 240
 aaaaacaaaa catagcatag ttttgtttta caaaaagagt tttcttaaata ttttctaagt 300
 taccagagta tttactctct cgtaatcgat taccagtttc ctgtaatcga ttactagtga 360
 taaaatntga tttcaaaaag ctttaactga atttgcaaca ttccaaatga ttnttaaagt 420
 gtgtaatcga 430

<210> 21850
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21850

agcttgtgat aaattacaaa caccatatat actagattcg tttattctct tttccaccat 60
 tgtaaatgct agagtatact attgacctct atacattaat agttgcgcat ggccaaaaac 120
 caagaaccta cagtaaataag ttgctagcaa gctgtttggc attcattgtt ttggatgttg 180
 tttttgtata ggctgtcttt gattctttat tcttattaat tgctactccc actttgctgg 240
 aaatacatgc gcgttaatgg ttcaatgaac caacgtgtga ttaatcaata ttgagtggcc 300
 ttaccttttt ttttcttgaa ttactcattt tacctaacgc ttggacggtt ttatttggac 360
 aaacattntc aataacttta tcgaatgttg atcaaaattc ccatac 406

<210> 21851
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21851

gtgagcatga actactacca atatatagta tggtgtttac acaaagagc acatcttana 60
 agcatactcc gcacaatggt ggctcttgg gaatgaagtg gcaattcctc cttctgatga 120
 tgcattggaca cttatccctg acccaactac aattcgtgcy aaaggctcggc caaaatcaac 180
 aaggataagg aatgagatgg attggctcaa accatctaac caccgacaaa aatgtagtag 240
 atgcggagca gaagggcaca ataggcgcca atgtccaatg caatctgacc gtgggagtaa 300
 ttcatttaat tgatttatgt atgttagatg agtgacttgt attggttgag gttctattca 360

atgtattttac tntgtggtgt tcaatgaaat cg

392

<210> 21852
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21852

agcttgagtt catgattcan aagaaaacac ctcgtaataa agccaattta gttcgacaat 60
tggtgaagtt ggagtataag gatggtcata gtatgattga gcacttgaat aattttaaag 120
ggctcgtaaa tcaattaacc aaaattgaga tgaagattga tgatgagttg caagcccttc 180
tactccttag ttccttgctg gaaagttggg acacactcgt ggttacactt agtaactcag 240
ctccagaagg aaagctcacc atggatacag tcagtgcag ccctctcggg gaagaagcaa 300
gaagaatgga acgaggtgag tctatccatc ccgaggctaa tgttattgag aatcgngta 360
ggaatgagac tcgtggatgt aataagagcc gagatctgag ttttcccaac act 413

<210> 21853
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21853

acgtgcattt gtgtgcaata cacaatttct tgtacactac aacaaaatgg tgtatcagaa 60
atgcgtaata gaactttaat ggatatgggtt agaagtatgt taatcaatta gactttaccc 120
gtatctttgt ggatgtatgc cttgaaaact gtcattgtatt tggtgaacag gggttcctagt 180
aaggcagttc caaagacacc ttttgaacta tggacaaata ggatacctag tataaggcac 240
ctgcatgttt aggggttgcca gacagaaata aggatttata atccgcaaga aagaaaattg 300
gatgcaagaa caatcagtga atatttcatt gggttatccag aanagtcaaa ggggttatatg 360
ttntattgtc ctaatcatag tatgagaaat gtcgaaactg aatgcaggt tcat 414

<210> 21854
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21854

agctttcatc aagtggtaat cagagcacia gagcttcaag taggtgctcc ttaaacctcc 60
attaattttt tgctttacct tctattccat tgttgtttct tcattttttc tccatgtatc 120
tcctcacatg tcttgtgata aatgttttta atatgattct ttagagtttc caccaattaa 180
acttgctata gaagctagat ttgattttct atggttcaaa tttcttggtc ttgttcttga 240
accatgaatt gtgttgagtt taggttcctt tgagttntgt cttgttattt ttttgtggat 300
gaaacctata ccataaaatt cttacaaaaa tattaaagta gaagaaaacc tcaaaaatct 360
agagtgactt gttcacctat tgtagttntg tcatagaagt catgtctagt tatg 414

<210> 21855
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21855

cgctcaaaaa ctgctgggta taattatctc catgtgtaat caattacaca ttataaattt 60
tgaattcaaa tttctagtaa ctgttataaa cattttcagc tactggtaat cgattaccag 120
aaagtaaadc tcaattttta atgatttaga tagaattttt tggccaaacc ttttgttttt 180
tcaatttgga aacttcttcc taagattcta gagatcaact taatcatata tcttgatttt 240
cttggttctt tggattcttc tcttanactt agaagcactt gatcctttgg catcatcaaa 300
acatcaaaac atcttgcttc tacataggat tcatttgact taatccatca actgaataaa 360
tccttcaact atntctcatc cttggaaaat tctt 394

<210> 21856
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21856

tagcttttag caaaggaaga agaagaaaga taagtagcan aggtttcaag atttctcana 60
agttgttcaa gaaattctaa aaaattgttc taaaaagtta taaaatgca agtcaaggtc 120

ttgcttttat agactcttca tgtctgggtca agaaaaccat tggaagagtt ataaccttga 180
 gaaaaacctg aaaaccattg gaagagttac atctcttgac tttttattca aaacttgtca 240
 ctggtaattg attacaaaaa ccatataatc gattacacaa aacatTTTTat gaaaggatgt 300
 gactcttcac aattgatttt gaatttcaac gttcagatac actggtaatc gattaccaat 360
 atattataat cgattacacc atttanaaat caattggaac gttgc 405

<210> 21857
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21857

tcttatccaa ggctcatctt ggtgggtgtg ctcttcttcc catggcttat tccttaatgg 60
 atggcgcctt ctctcacctc ttttctttt ctcccgctgc atctccatgg tggaaaatca 120
 ccattaaagg accccattga agctcaaaga tccagcctcc atagaagccc ccacaagcaa 180
 gtttccatca atatggataa catatagata tgacaataat cactgaaata aacttcatga 240
 aacaggacct caacatcggg caacatgtcg agcacaatgt tgatgaaact taagtcactt 300
 gagcatttca gaaccaactg aattttatac tttgggttga ccttgattnt aaaggcaagc 360
 acattaccca ggaacttatc 380

<210> 21858
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21858

agctatgtgg atttgggtctt cgccggcaaa aggatcgaag cgggtctgaa aataggcaaa 60
 tttgatcatc ctactttgat gagtgagaaa gctggggcaa atgaagagga tgagaatgag 120
 ggagaaaccc ttgatatgac tgccattcct acacggtcaa atttcccatc agcccaacaa 180
 tgtcattact cagccaataa cagtctctca cccaatcatc cacaaaggcc atccctaaat 240
 caaccacaaa gtctgtctac cgcacttcca atgatgagca ccacctttag cacaaaccaa 300
 aacaccaacc aaaaaggaat tntgcagcaa aaagcctgta ggattcaccc caaattccgg 360

tatcatatgc taaacttgct cccatatcta ctcaataatt caatggt

407

<210> 21859
<211> 417
<212> DNA
<213> Glycine max

<400> 21859

tgaactaaaa tcggaagag tgtgacctta aactgtgtgt gaacgactag ctgtgagtga 60
taatctttgc atgaatcttt gaattttaga atgaaatgta taaatgagga cataatgaag 120
gccatgattg tacatacaca agctcccttt ttgagctgaa tgatattgtc aaaaaatttg 180
aacctgaac ttaaataatt atctcctgat accttggtta gattttagaa gagcatatgg 240
ttcaaggcaa atttactcta aatttggggg aggaaagtca attagaatga aaagaaaaag 300
gttaagcatc agcacacaca acaataagt gtttgtaaaa aaaaaattg tgttggtaca 360
ataaggtcaa aagcaacttg agaggaaaag atagtgagaa aactacttgt ataatac 417

<210> 21860
<211> 403
<212> DNA
<213> Glycine max

<400> 21860

tttgctatga gcaaattcaa acgacaataa ccttttactc ggatgtctga ttgagtcccg 60
taatatatcg agacgctcga aattgaatgt tgaagctcag agcaaattca aacgacaata 120
actatcttct cgtatgtttg attgagtccc gtaatatatc gagacgctgg aaattgaatg 180
tttaagcttt gagcaaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 240
agtaatatat cgagacgctc gaaattgaat gttgaaactc tgagccaatt caaacgacaa 300
taacttttta ctcgatgtgc cgatttagtg acgtaataata tctgggtcgc tcgaaattga 360
atgttgaacc tctgagccaa tccacacgac aataactttt tac 403

<210> 21861
<211> 346
<212> DNA
<213> Glycine max

<400> 21861

ccgcttaaac attcaatttc gagcgtttcg ttatattacg gttctccaat cagacatccg 60
 agtaaaaagt gattgtcgta tgaattggct tatagcttaa acattcaact ttgagcgtct 120
 cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgccgt ttgaattggc 180
 tcaaagggtc caaattcaat ttcgagcgtc tcgatatatt acgggactca atcagacatc 240
 cgagtaaaaa agtattgtcg tttgaattgg ctcacagggt caacattcat atttgagcgc 300
 ccccatatat tacggcactg aatcggaacat ccgagtaaaa agttat 346

<210> 21862
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21862

tagctttact agctagatag atattngtca aattcctaata ggtcaaacat cattcttttag 60
 cacgaatgca tattcaattc ttgtgttcgt gttcatatat atattacact ggcatacaat 120
 gcatgtttat tttctttaag atgctgccat ctgtccaatt tgtttgctat atatgagatt 180
 cattaatgt ttgggtaagg caattatacc gttcccgca gtcataccat ttgtcattgg 240
 tcatatgcat agattaattc ataaagtnt ttttagccaa atcattttat agtttgtgtt 300
 gcagattata taatgtctta gaaaaaaagt aaatatttta aaatatatat tagtttacta 360
 aattaatatt atcctttaca tattttttta gactatcttt aattaatac 409

<210> 21863
 <211> 346
 <212> DNA
 <213> Glycine max
 <400> 21863

ttgggccatt aacaaaaaa atgtatgttt gaagtaatat ttgattgcct ttctaaacac 60
 aatatgtttg aactttgaag tacacaaaag gatgtgaaag tgatgcaaac atatagcatt 120
 gaagcatacc aagtaagtaa aaacgtactc caatatgacc agctccagaa gaaagaaata 180
 gtcattataa cttgggttaga agacattgtc tgcattgtgc atagaaacac tgttattaat 240
 gaaaccattg cacatatagt tcttcaatta accacaattc ttttcaactt ttaataatat 300
 aaagttccaa aaaccttcct ttcaaaggaa aagggggggg gggggg 346

<210> 21864
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 21864

tatcttctaa acacagcaac acagaatcta ggtgtccaaa acccctcaat tcaatgggtt 60
 ttctaggttt gaaaagtga atttagaatg aggtaaattt gaggcaaact ctcacctcac 120
 accagtccat aacatccatt tagacttggt caaactggat ttacacctaa aatctcaccg 180
 aatcaaaatt tgactcttca acacccaaat ttgccctagc aatggctctt tgttcacttt 240
 ggtcatttgt ttttctctct agctcagcct aacctttctc acatgtccta agtgacattt 300
 caagctagta ttaactcact ttaacctcca ttaccacag aattcagact tagcctccaa 360
 ctctcaaagt ctactcttt ttccactcat aacatcacat tctgacttta taac 414

<210> 21865
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21865

gactcacgct ttgagggtgc gcagcccacc atcttttata ttggagtacc gataatgtgt 60
 ttaccatcac gattatcgtc tccctttcca ttattggggg taccacctgn gccgccagat 120
 cctccacct tttgggcatg tttttgaaag atccgtcccc ctttttgac atgttctgta 180
 gttgcatcct attcagaacc atatcaaaat tgtactgata ctgcctaaca aaggcaacca 240
 ttangtcctt ccaagaatgg actcangaag gttccaagtt agtgtaccag gtaacagcta 300
 cccagtaag actttcttgg aaggaatgta tcagcaattc ctcatctttt gcgtattccc 360
 ccattctcta acaatacacc tttagatggg tcttgagaca agtagtcccc ttgtacttgt 420
 c 421

<210> 21866
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 21866

tatgctatgc aagtcttgaa aacgaagtca ggaaactaag ggagcctctg gtaatcgatt 60
accagcctgt gtaatcgatt acatagaggg atgggtcact ggtaatcgat taccagggtat 120
gtgtaatcga ttacacagtg catttttcca tatttcatgt cctgaggctg tgtaattcaa 180
gtttagcctc tggtaatcga ttaccaaggc tgtgtaatcg attaccagag atgaaaagcc 240
ttaagatacc cctcttactt gcatgtaatg gtttgtagaa gtattgtgtg cagcgcagtt 300
agattcttgt gaaagagtct acccctctct cttctttctt gtagatcgtg atggcgg 357

<210> 21867

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21867

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agtccttggtg ttcgaaactct cagccactta tgatagccgc cgatgatccc attactgctt 120
cccctaagct ctctgtcctt tcttcatgcc gcatcccatg ccttgcgaaac tccttgaggt 180
accctcgcgt tgtggacact gaaacctcgt gcgacgaaag gcgtgatgct ttcattctgat 240
ggcactcctc tcatgggaca tccttctcat gaagataaaa tcctgattct tccttccttc 300
tagcgaggga accatttaac agacg 325

<210> 21868

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21868

agctttgatg gttntgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60
gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120
cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180
atcaagcctt gcttcacaat gaaaggtttc aagtcattca aggcacatgt aatcgattac 240
caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattaca catcatatgt 300

aatcgattac cagagactct gaacgttgag aattcanatt ttaaataag ggtcacaact 360
gttcaagcan aataattgtg taatcgatta cact 394

<210> 21869
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21869

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gtgtatatgt gtataactgt attatattcg ttgttctggt tgttggttgt attttgtttt 120
gtgcagaaga aaaaagaaga agtagagatg agagtcgtca tcgcgaaaag ggcaggacgg 180
acgaaatcag tgtcctatct ttgctttcct cttatctctg atgagaggta agtaaagagg 240
ggcaactgtc ataccctaatt ttcgtccggg gattattact tgatgacatg caatctttgg 300
ttagccgctt tgagatactt ggcgttcttn gttgcacaat 340

<210> 21870
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21870

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tccacttgta tagttatagg atgattatat taagcggaat atcatagtca agttaggagt 120
tgagagaata taaatttgaa tattcagaat aaaagaaaat ataattgttg attccagaaa 180
atgtgctgcc ccttttaagc tgtaaagcat gcacaatttt taggtgttgg agtgtcacac 240
aaccactcc aacaatgaca ctctcttaaa aattcaatta aaaattatct tttactgtga 300
tggatatact tatattaagt agacacgtaa gtgattggat attcaacgac ccctagctag 360
tattataaaa aatcacatt tctagtatta tanaaaaatc acatttttaa a 411

<210> 21871
<211> 429
<212> DNA
<213> Glycine max

<400> 21871

tgaaggtaaa ctagatgcct tggttaacct ggtaacttat ctggccatga ataaaaata 60
tgcacctgtc gccagactct gtggtttatg ctctctgcc gaccaccaca cggacctttg 120
cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180
caacaaacat cctcaacctc aacagcaaaa tccgccacaa caaatagtt atgacctctc 240
cagcaacagg tacaatcccg gatggaggaa tcatcccaac cttagatggg caaatccttc 300
acaacagcag cagcaacaac aacaacctta ttttcaaat gttgctggcc caagcagacc 360
atacattcca ccaccaatcc agcaacaaca acagcaacag cccagaaaac aacaaacagt 420
tgaggcccc 429

<210> 21872

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21872

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actaagctca cctccttgag aagtttcctt aagaagattc ctaaagaagc tagagattag 120
ctacacatac ctctctaata gctaagctca cctccttgag atgaaaagct agagcttagc 180
tacacacctc ctataatagc taagctcacc cccatgacaa aaaaaacatg aaaatacaaa 240
aaaaaagtcc ttactacaaa gactactcaa aatgccccga aatacaaggc taaaacccta 300
tactactaga atggccaaaa tacaaggccc aaacgaagga naaacctatt ctaatatatta 360
caaagataag cgggctcata cttagcccat gggctcaaaa tatacccta 409

<210> 21873

<211> 417

<212> DNA

<213> Glycine max

<400> 21873

tcgatgatga tcaagattga ttcaaagagt tttgatgtat acaaagatga cgacaaaaag 60
ctcaaaagtc aagaacactt aatgataaca aagatgatga tctcaagaat aaaagaatga 120
gttcaagatt gaatcacata cacttcaagg atcaagagga aagttgaatt caagaatcaa 180

gtttcaagat tcaagttcca agaatcaaga tcaagattca agaatcaaga gaagactcaa 240
tcaagataag tattaataag tttttttaaa aattgagtag cacatgaatt ttttctcaaa 300
acctttttacc aaagagtttt tactctctgg taatcgatta ccagattatt gtaatcgatt 360
accagtagca aaatgggttt caaaaaaaaa aaaaaacttt caaactgaat ttataac 417

<210> 21874
<211> 412
<212> DNA
<213> Glycine max

<400> 21874

agcatacata tatatttttt gacaacatcc gtcatgcctg cattaaacat gattcttctt 60
ttgttaggaat tggccaaaat ggtgatagtt caacaacttt tcctataata atcagcggtg 120
gtgacaccag ctgagcagat gtaattttct cgtgaaggtc ctttagttca gcaaacacct 180
gcatcatagc aaaataatca gctattggac ctagcatccg gaaaagttga attaagaacc 240
agctatatat agattcacac acaattgtat ttatttatca gtttttaata tcaaccatgc 300
agaagtacaa aataaaatgt ctcatattca caactacctc ctataacaaa acattattaa 360
gatcactata ttctattagc ctcgacttta gtgtcaggta cactctcttc ac 412

<210> 21875
<211> 329
<212> DNA
<213> Glycine max

<400> 21875

gaatgaaagt caaagtcttt gaaagggacc caagtaaagt taagaagtat gaatggcaac 60
aaacacatat acgtcatatt tgggtctaaa tttttcaaat ccttaaagaa aaattggcag 120
ataacgtcgg ccatgggaac aacaactaca ttggctaagt tgatatgact aatatgaatg 180
ggcaaaataa actgtttact tattgagtat accaacaaat tttgaaaaat tgacctacgc 240
gcattttttg tattaagaa acgacatttt cttttatata aaattaacta gtatattttc 300
atttttttct taccatttca ttatgaata 329

<210> 21876
<211> 412

<212> DNA
<213> Glycine max

<400> 21876

agcttgatta tgggtgcttta atggaggaaa agaaagaggg agagaaagag agagggggga 60
gcacaaaatt gaaggaaaaa aaggagagaga agttgaactt tgagttatgt ctcaacaagac 120
tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggttagct 180
tccttgagaa gctttcttga gaaaacttcc tagagaaact tctttgagaa aacttccttg 240
aaaagctaga gcttagctac acacacccat ctaaaaacta agctcacctc cttgagaagc 300
tagagcttag ctacacaccc ctataatagc taagcttacc cccatgacaa aatacatgaa 360
aatacaaaaa aaaatcctgc tacaaagact actcaaatg ccctgaaata ca 412

<210> 21877
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21877

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ctgtctgaaa ttttgtgggg ctgagtgaag agagagagag ttgttttttg gttttaaata 120
aaagggtttt ctctttttta tgttatttta ttcaagctct gccacatgtc cctatttgag 180
tggagcaaga agggccact ttctcttttt gactgtgacc catactcagc cacaaaagtg 240
agaaaaatct gacctttgaa acgctaaaat cctgcctcgg ttgctgtgtc gtttctcttg 300
tttcagang atggaatatt ttgtgttcgt cggtgccagt ttttgaaagt aaccaatata 360
tatatcaaaa cgctcagaat aaaaccccga gcgt 394

<210> 21878
<211> 358
<212> DNA
<213> Glycine max

<400> 21878

agcttgctct atatttacat tgatgtttgt atttatggga ggaggttata tgccattttt 60
gctttaagag taacgtccca ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa 120

tggccccgag gaagcttgcc tcaaagaggt ccaggaagga caaggcggcc gaaggaacta 180
 gttccgcccc ggagtagcac agtcaccgct ttaggagcgt tgtacaccag cagcgcttcg 240
 aagccatcaa gggatggtcg tttctccggg agcgacgcgt ccagctcagg gacgacgagt 300
 atactgattt ccaggaggaa atatggcgcc ggcggtgggc accattgggt actcccat 358

<210> 21879
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21879

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 gaggaatctt ctggagggcc caagtgggccc tggttgctat ttgcaccccc atttttacta 120
 aatacacccc ccttttctat ttttttgtaa ctatttttct gtaacgttac aaaactttac 180
 gaacttcgta acgatactta ttttttcttc tgcaaggcta cgaaccctta cgacttatgt 240
 atttactctt ttttagcttt caaagaagtt acagaaactt acggattgcg canaaacacc 300
 tctttttgac ttccgccaca ttacggaagt tcacggatcg cacaagcctg cttccttttg 360
 atttctgaga catctcgaaa cttcatthtat tgcattgtcat caagtaataa tccccg 416

<210> 21880
 <211> 241
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21880

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 tttttggtgg caaggacgag ctttagccca tcaatccttt ttctatatct atcatattaa 120
 tgatccggcc tcctttgata ttttaccaga aaaaatctta ttcacctggt attccaattc 180
 ctaatcccgat gatgtgaccg ttttatttca tataaattaa atccttcttt tatatgggca 240
 c 241

<210> 21881
 <211> 339
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21881

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gcagatatat gaagatctag gacttctcat atggctgcag aaagagaatt ttgagatatg 120
tgaaagcaca cttganatgg cttcttattc tccaaagcaa atcataatca aggaataacg 180
taattgggtt tctaattgcag actnagtggg atgtnaggac acaaagcccc taatatgttt 240
caatactgga tcacaatctg cttgattcta aaacaagaaa tgtagatttc acttggagta 300
aagacatggc tatgttcaca gctgcaatca cctgggtgga 339

<210> 21882

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21882

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gatatgtctt ctaaagcgta ggaaggttcc aaatgcgttg tgggtgggcat tgtgttgtgc 120
agtatatgat tgcagcgtct gccatccttt tccctggaca tgtaggcaga gttactccac 180
agagtgtaac ttatagcttt gcaacccttt tgcttgacct cctcagtggc aatcatattc 240
ctccaagcca tgtaagtttc tttacttaat aaaaagttaa gcaaacaaca cttattgtgt 300
tgtgtcctat aatgttgtct atcttagtct aattgagttc ttccttttga tcaatttctt 360
cttctgattg ttctacctan aatcaagtaa gaagtacctg tcaaaaaa 408

<210> 21883

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21883

actccgctta tattatactt tattagtaaa aatgttgcaa ctttatattg gtttggatag 60
attgnnttagg agacagagaa atgaaagagt gattaaggat gaaagggtga atttcactaa 120
cttggataaa aggcaaata tagagaggaa gacaaaaaat tcatataggc tccactttcc 180

[illegible]

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<223>      unsure at all n locations
<400>      21884
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<210>	21885
<211>	405
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      21885
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9173

<210> 21886
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21886

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 tggaggaatc ttctggaggg cccaagtggg cctggttgct atttgacccc ccatttttac 120
 taaatacacc cccctgcttt ttttttgtga ttcttttttg gtaaagtatt ggaaacatac 180
 gaattttgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggatcacata 240
 atcatccctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
 ccatttgatc tccggtgtgt cacggaacct tacgaattgt gcatcaatat tttctttngt 360
 tttccggcac gttccggaat ttcacaaatt gcctaattgat gg 402

<210> 21887
 <211> 413
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21887

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 aaaggaaatt cccaatcaaa gagaaagaaa aaaaggaagg aaaggaaatt cccaatcaaa 120
 gagaaagcaa aaaaggaagg aaaggaaatt cccaatcaaa gagtgggaga aagagaaaaa 180
 aaagaaacga aaggaaattc ccaatcaaag aagtgggaga aagaaaaaag aaaagaaaga 240
 aaattcccaa ccaaagaatg ggagaaagta aaaaagaagg aaaccatgac ctanaagtgg 300
 tcttctccct ttgattacca accaaaatcc tgtgcgctag cgactttttc gccccgcgct 360
 aaacaaaaac agaaaaggaa aaagccaacc aaaaatcaaa gccaaaacac aca 413

<210> 21888
 <211> 398
 <212> DNA
 <213> Glycine max

 <400> 21888

ttgcttgcaa gcttgagcta caattactct gatagagtag gtcttcttca tatcattaat 60
 aatgccattc aaccatactt ttttagttgt caataacttg ccatcaactt ttttagtcaa 120
 tcattttgaa tttgtagtct tgttattgaa gaccctccca cacgtgtgct tccgttcaaa 180
 tgtcttcatt atgaatggtg tgttgttttc cacttggtt accaaaaactt taaatgaaca 240
 accttttgac ttacacataa ctctaactct aattttgtca ttttttgga acctaacctc 300
 cattctaata agaatcaaat actctctcat tgcctcctta tagtcaacta aagagttaaa 360
 cttcatttcc aactgaaatt tgaagttctt tctaattc 398

<210> 21889
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21889

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 gtcttcagcc acccttctga atccaatggt tcagctgtcg ccttctcctc tcctacataa 120
 cctgcaccgg caccataatc accattcatg gaacatatta cataagcaag accataaaaa 180
 attaagtata tttcgctagt gatatgaagt acgtttggta aaaaacacga atcatattca 240
 tcttgatgg cttaacctga aattggtatc atttattang aatcatgatg ataacagatc 300
 ttagaatttt atgcactnnt ttaatcgatg gttggtttat aagcttttct tcactaccta 360
 aatcctcctc ttgtctcagt tataaggaaa aaaca 395

<210> 21890
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 21890

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 catgattgac tgcaaaccga ccgcgcctat acttatatga tatatcctct agcaagcaaa 120
 aggcagtgc taaataatac tactatctat ggaacacaca atgctgactt tttacagtta 180
 tacgagacta ctattatctg atatctgaaa ttacttttaa ccagctttct catttgattg 240

cgtcaccttg tgctcgggac ttggcatct acacactcca tctcagaagg acaggacccc 300
 atatagtatc agaactatta gacgaaaaca tgacagaatc ctctgcgtgc tatatccctc 360
 attatagtac aagactgtga cgagtct 387

<210> 21891
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21891

tgttacaaac tacaanttnc tanttttnag cnttttttcc actgcttcaa ctcgatctga 60
 ggctgaaact atcatatata taaataacca attaactaat atctctccac aaagaaacat 120
 tattcgacat ggggcactgc ttcagcaaac ccagcacaaa cgaaatacca ttcaactatg 180
 attattcacc accccctcat cattatcagc cagccccgca ctcaactca gactcaagga 240
 gaacacaaca acctcaactt caacctcaac ctgtgtaccc caatcgaact ccaaaatcag 300
 acccatctcc atcatcatca tcatttggtg atcaaga 337

<210> 21892
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21892

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 ttcaccogac gaagacactg acaaaaactt atcttttctt tcttggacaa agcatggcag 120
 gctgggggca agtaaat ttttctccatca gaccttggat gcaactgtga tcgtataccc 180
 atatcaacta gatcttgacg ggtattcaag ccacccctcg tcttgccttg aatgttaagg 240
 agtgtgcaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaat ggatctcttc tttcatatgc 360
 cactctgact tttatcctt 379

<210> 21893
 <211> 366
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21893

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gaagaacggt tcaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcgga 120
agcgcctcgg cttaaatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
agaagtgcct aacgggctgg accccttctt tcttcatttc ctccctatn tatagcagaa 240
taggggaagt gggtgtcgcc cagctcgccc aggcgagctc aactcgcca ggcgagcagg 300
gttgctttct ccagaagcac ccgccttctg aggaatcttc tggagggcca aatgggcctg 360
gtgcta 366

<210> 21894

<211> 412

<212> DNA

<213> Glycine max

<400> 21894

agcttagccc acactactgg cttaggatgc aaaaagccca cggcgaagcc caaatgtgtg 60
cttaacgggt tacgctaaga gcgaatttag tgtgaaaatt aagttacctg aaggctatat 120
aaggaggaag aagtagaagg gaaagacaca cggagtctta gagctatcca aagcctcagt 180
ctatccctta ggggaaacct ctctctgttt ttttatccat ttcccttttt cttgctatta 240
gtcatccagc cttttctttc attagctccc gaagtgtaaa gcctctaata actatgagag 300
gccaaacccc tttttgttgg gagccaggag gccgaactct tgtaatgtaa ttcttcccta 360
ctatctattt aatgcaatta tgttctatt attcttcttt gtgcttttat gt 412

<210> 21895

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21895

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ttgatcttga cttgatagaa cctcttttta agcaaaggca tctaacttga tcccatgttt 120

agcagatgct caaggagtagc aatgtcgaac aagatgtcat gacattatac tgtgacaacc 420
tgagtgc 427

<210> 21898
<211> 416
<212> DNA
<213> Glycine max

<400> 21898

agcttgggaa aggttgcaag agattattaa gagctatcca cataatggca ttactcaaca 60
aaagctagct cgtatTTTTT atgttggagt gtcctcaatt aatagggtga gtttggatgt 120
tgcttgtagg ggcaacctca tgttaaaacc ccatgttggg gaaatcaaaa tcattgaaga 180
catgtgttct atgaaataac aacaatcaca ctagaagagg ggttgaatag tgtgtcaatc 240
aaagatcaaa tatatTTTTT gttcaactgt aatatcatag attcatatat atatatatac 300
atatatatac acacacacac tagaattgta aaaaaaaaaa acaagtttaa tagtccaata 360
aatatatgaa gtaagaagtt taaaagggtt ttcaaataga caccaaacac gctaaa 416

<210> 21899
<211> 427
<212> DNA
<213> Glycine max

<400> 21899

tatttcgagg atagtttatt atcatgcata gcttgcatta gttggctcat aacagaccaa 60
tcataacctat ggagcatttt cttgagcaag tagcctggcc tgaagctcaa cttccattgg 120
tgagacccaa cgaagttgct ccgcctgagc ccacacctgt gcaggtttat ctaaagccaa 180
ctgaccata atctcaagtgt gtgaatccac cttcttctct tgagcttaaa ttagtgtccc 240
catctccacc tctgattgtc atcttcgacg catcatcaga tgaagcggct acccctcctg 300
attaaccagt tggagaaaca attgatcccc ttgcttcccc ggttggagga attgccgac 360
tttctgtttc gtcactctgga gaaagctgtg ctctcactga ttccccagtt tagacactgg 420
tgacatt 427

<210> 21900
<211> 409

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21900

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 taacagggtg tctcagtctg cgggtagagg tagtggtggt agtggtgctc ctgctattgc 180
 tactacacca ctgaggtgtg ggaagtgtgg tcggcttggg catattgcac gtgagtgcac 240
 agatagagag gtgacttgtt ttaactgcca atgtaagggc cacctcagta ccagttgcac 300
 atatacgagg agggagaata ggagtggaag tctgaataat cagagtggac gaccaatgac 360
 cacagggaga gtgtttctct tatgntgctg atgcccacag tctgatgaa 409

<210> 21901
 <211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21901

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 acctggagat atgtcgcang ggtcaagaga ccttggggac gtcaagtggg gtgctattgc 120
 ccanaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaagcga gtcctggca gtcaacagat aaaaggaaca aagaccacaa 240
 agcatggagg cttgtggtgg ctggccagct gtgaatcttg tgtgatatgt ggattatggc 300
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacaag 360
 aggctaagat ggtctctggt aatggatta 389

<210> 21902
 <211> 393
 <212> DNA
 <213> Glycine max

 <400> 21902

 agcttccaaa ttagtgtacc acactaccgc aactccggcc aagctatcct gaaagaagtg 60
 tattaatagc ttttcatctt tagagtgggc gcccatctta cggcagtaca tcttgagatg 120

gtttttggga caagtcgtcc ctttatactt gtccaagtec ggtactttga acttcggggg 180
aataacaaca tcgggtacta agcaaagatt cgctatgtct gcgaacggat aatccccaaa 240
tccttcgacg gccctcagtc tttcctcaag gagatcgagc ttcctccttt cttcagttgc 300
tggaggcggc ccttcctgtg acaaaaactat tgggtggtgct gcgatgttgg gttgaggcaa 360
cgtgcctggg gccggccctt cgggatcggg gat 393

<210> 21903
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21903

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ctgggtctctt tcttccttc gcaacttgag ttcactattg ctacccata gagctccgcg 120
aaatttggtc cggccatact cttccttgcg agccctcttg gtctcttggt caagggtctt 180
tgcagtaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
caacttgaac ttctccttg gcaagttttgc ctttcctaac tcgcttttga gagtttggac 300
ttcttcgtcc tcttcgggtg cttcaaaaact ctcttcgctg acgactntta acttggcgag 360
ccaatctaaa cctcgtatat gaactntcat ccattcgtgg taccaca 408

<210> 21904
<211> 403
<212> DNA
<213> Glycine max

<400> 21904

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tcattctact gcctgcatgc aatgaatatt tctccctaac aagatcaatt ttcaaactgc 120
aacggtgaaa atatgcagaa atgaatttcg aaccagggtg cccaatttca caatgatcca 180
acggttaatg agtctgggat tatagtttta ctaggacagg ttttgggtct ctgcaagaaa 240
agaaaaagt aagatgagaa gggaatttct ctcacctcca actctgattc gcaatttcca 300
tcggtgagaa tacttgaata tgagctgcaa acttgggtgct caaatttcac aacaatccaa 360

cgattaacga gtccaagatc attgttttac tgagacagat ttg

403

<210> 21905
<211> 356
<212> DNA
<213> Glycine max

<400> 21905

ttagattagt gatcacatga aagagtgtat aatatagtat atgcattgag tttgaaatgc 60
gatagatatc aaagtgtgaa tacatcctaa aatacatata atggaaattg atgattgaat 120
gttcaagcaa aatgtctaaa aactaagcct acccatacat atacgaaaga gagagaacac 180
actagtctca aagcagtcac cactaaaccc aaacccatgg caaggaacta cacaaacgtg 240
ttgagataag agtcaacaa ttagaagagc ccccataatg ggactcctgc gaggaacat 300
cacacatgac ctcatcaaga tcctctacag gaccctcacc attgctctcc ttaatg 356

<210> 21906
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21906

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ccatttatgt attaaatcta acttgatagc ttaagattaa aaaaaggaaa aaaaggtttg 120
tcatgcctca aataaaaactg gctttttctt ttacactggc atcgtgggtg ggtacacatt 180
ctggtaacaa ataattacaa ttattcctac aaaataatcc agaccacccc atttgtgtgc 240
agcactagcg ctactagatg gatgataaaa tgggaggcct taatagatgt atgtttcttg 300
tggattgtta taagaaccaa ctntgttcac ccaaaggcta actagttcat cacgttgata 360
ctacaacaaa atagaatata tcctttttaa aacaaaagtt gttcaccac 409

<210> 21907
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21907

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 aacacgacta aaatccgtag taagatgaaa aataaatttt caatttaata cttattagcg 120
 tatattttaa agaaagctgt tagaaattag taattattga ttatttttgg gacatgtaag 180
 aaagacatta tgtgtgcttt ttttagcgag acaatgttat ttggtttaat agactaataa 240
 tgtaatttaa catattgaaa catcaaatta taaatattct gtacaaaatt aatggatat 300
 agatgctgga tgtatttatt cagcataaaa aggttcctgg atgtatttta ttttttgaga 360
 ctggccgtct ctatcttc 378

<210> 21908
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 21908
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 cgtgactggc ccctctcttc ccttcgcagc ttgagttcac tattgctacc ccatagagct 120
 ccgcgaaatt tattccggcc atactcttcc ttgcgagccc tcttggtctc ttgttcaagg 180
 gctcttgccg taattgcatt ctcttcccg aaccggcac actccttcg aatgtgtgtt 240
 gcggccaact tgaacttctc cttggcaagt ttgccttttc ctaactcgt tttgagagct 300
 tggacttctt cgtcctcttc cgggtgcttca aaactctctt cgctgacgac ttttaacttg 360
 gcgagccaat ctaaacccttg tatatgaact ttcagccatt catggtagc 409

<210> 21909
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21909

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 aaacaaatca aacgtaacaa gacaattata gttgctgttt gaatacctca cccactcaag 120
 tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180
 ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaagaaca attcaccaat 240
 atgtgtaagg taaggctaga gagacaagga aaaggtaaac caagaaaaag gctaacaatg 300

tttttaggca caaatgaagg aaataaaatt cagaatttat gaattcaagt aacaatcctt 360
catgcaacca atatatt 377

<210> 21910
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21910

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cgtaagcatt gttggattag gagaaccttt gtctaaggcc tatagacttg tgagtgcctt 120
tttccttata cacttgattt ctggattaaa ctttcattgt ttttttttgc acagcaaaaa 180
tcagataata ttataaatga ttcagtacta agtgtactga agataagctg aaatagatac 240
caaggcagag aactgccgaa cccaactaca taggataaaa gcacagtagt tggagggtta 300
agtcgataga ataattctgc tgagtactca cttgggtntt ntttttgctc atcaaanata 360
gataatatat attgatagag taccagtggg acgaanatac aaggtact 408

<210> 21911
<211> 403
<212> DNA
<213> Glycine max

<400> 21911

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gtcatcattt tttttccgtc attgaggtgc cacttgagct gccaggttct ccacctttgg 120
gcgtattctt tgaaagatcc gtgccccctt tttgcacatg ttctgtagtt acatcctatc 180
cgaagccatt atactgacac agcctaacga aggcaaccat tatgtccttc caagaatgga 240
ctcgggaagg ttccaagtta gtgtaccagg taacagctac ccagtaaga ctttcttgga 300
aggaatgtat cagcaattcc tcatcttttc cgtatgcccc catcctccga caatacatct 360
ttagatgggt cttggggcaa gtagtcccct tgtactcgta aaa 403

<210> 21912
<211> 412
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21912

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tcaatgtatt ttggtcgttc atgggtgagct ggattggatg ctagatctat gacagatttg 120
ctatcacaga aaaacatgat agaaggaata gtaatctcaa agtgcagtaa aagtcttctt 180
agccaaatca cttcactaga tattgaggag agtgcccgat attctgcctc aacagaagac 240
ttagacagaa tgggttggtt tttttatttc catgatatta aggtatctcc taaaacacac 300
aagaaccaga tgttgatctg cgtgtgtcca agcactttcc caatcagcat ctgcttatgc 360
agacaaattg catgaattgt ttgatgaata tgacaccctg acctgcagac cn 412

<210> 21913

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21913

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tatagttatg ccttagatta acagtggta tgccgttaag ctatgacttc agtgttattg 120
ataaaaactga gtttaagtttt gactactttt tctactattag tagaagtacg caaaaaaaaa 180
aaaaaactttt attttttgtg ctatgtccaa ggtaattac agtcgtgggt gtgggtttgtt 240
gcgatccttg acattgccgg aaattgtggg caaatgcaat tgcaattgtg gtcgcgatgt 300
ggttgtggca agcctcaaaa ccttgatatt gcagctgaag ctgtgtactc ttatatagtg 360
cacttagctt tataatt 377

<210> 21914

<211> 372

<212> DNA

<213> Glycine max

<400> 21914

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atgatatcca ctcgacaagg tttgaagtag aggagacctt caatcctata atgcaacgtg 120

gcggacaaaa gtgggcagtt aacttgaatg gccattattg tcaatgcgga aggtattctg 180
cgcttcacta tccatgttca cacattattg cagcttgtga ttacgtgagc atgaactact 240
atcaatatat agatgttggt tacaccaatg agcacatctt aaaagcatac tccgcacagt 300
ggtggcctct tgggaatgaa ggggcaattc ctccttctga tgaggcatgg gcactaatcc 360
ctgacccaac ta 372

<210> 21915
<211> 381
<212> DNA
<213> Glycine max

<400> 21915

tgtaggatta tgggggtaccc atcacatgtg gtactatgtg ggggtcgggc gatggtgcac 60
aacaagtttt tccacatcca caatgcgcgc ataaaccac catcccctgt agcccacctc 120
caactgagct cacgtactcc catgtagccc atatcctcgt ttctctcaac accgggtccc 180
catcaatcct cccaagcttc cccaacatca aagtaatata acattcaaac agcacaaaact 240
atcacagcca agaaaacaga gcagaggcag aaaactctgc caaaacacca accaaaatca 300
cagcttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360
gatcgactcc aaatttttac t 381

<210> 21916
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21916

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ttttttgcaa gcttaattaa taatgaaagg aatggagaga aaaaatggaa aaggttaaat 120
ccgtgcacaa attataatcg tcgttaaaaa tttaataata ctgtcgtaa aaaagtattt 180
tctagtagtg gtaaagttca ctttattgat tgagtcataa ctttaataatt caatcttatg 240
cagtcacaaa gaaagttgaa atttgaacac aaaaanagaaa taaagatgaa gatttactag 300
attgtcatat ttttttttaa anaaaaacat tattatacat gtatatatta ttataatcat 360
gttaatggta catatatcat catatttaa 389

<210> 21917
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21917

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 ttgtattgtg gattatctcg aatgcgtgct tcaacagatc ttgcaacca acctactgat 120
 gcctgctgat gatgaagggt ctgaactccc tcgcaagtat gctctccgtg tagagttctt 180
 acagtaaaag ttggaacacc gggacacttt gctacatgga cccgccatgg gcacccttct 240
 ttggagcatt ntgctataaa acgactgcga tctgacttaa ctatcctaag atcaaaatgc 300
 atagcaatgg caatatcttt cagtgttctt cggcagggtt tcacatctgc aaactcttgc 360
 ccaatgacta acggctgctc tgctacagta acagtactaa cagatgtgt 409

<210> 21918
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 21918

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 cctgatccct ctgctcttat aatcaaccct ctaagatata gccaatgtaa gaatctaaat 120
 ggaaaaatgt ctaagaagtt atgggaatac acatatatac aatatgtaaa gcatagtaca 180
 cttaattaaa atataaaaac ataaatttac atgtgtatcg cagagatatg attgctatga 240
 ctttatctgt gatcatatcc cagtttagac acgtagcgta cgtggtacaa aaatttgcaa 300
 gtgtatatgc acagcagtgc ttgatgacaa ttaacaaaag gttaattgac atgataaaaa 360
 gggtatcaaa aaatataaa 379

<210> 21919
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 21919

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 gtgggcctca aaagaattat tgatggcatt gaggaatgac tctatttcct catgaagctc 120
 atcaactact atatcattga atctaaaagc ctcaatgatt tcttgctgaa gctttccttt 180
 gtagtatgga ttcgaaagag tgtcttcaag gttctgatca aaaacaagtt tttcgaaagg 240
 agccacaacc tcattgaaat gggtaaaagg catgttggtta ctcgatgtgg aggcttttga 300
 aggcatagaa tctgaagacc aagcatcaat gaaagtgaaa gggatgcat ccattggatt 360
 cacatctacc tgaggag 377

<210> 21920
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21920

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 tgaccagata gatcatgttg tctaccacta aatttctcta tttgtagcga catagatcgc 120
 gaacctactg gacatcttct ggctcaccct tcatgattaa ttggaaactc gtcaaggagt 180
 tatattactg tgtggcttga aaagtcttat tggaaaatct gatatccctc ctaataggcc 240
 acacatgaat cttactgtta atatttaa ataaat taagatatat gagcaggggt gctcctatac 300
 cttgacgact caaaacgggc agcgcggcta tgggtctttt gaaagttacg aaggcttgca 360
 cataagtctt gttccatgag aatggctgac cctttttag cactctgtta atgcttcac 420
 tttctcgca tctatggcac gtacctggac aacgatgcta tctacc 467

<210> 21921
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 21921

agcttgtaat aatcttatat agaagtatga gattaagttc ctgagtggaa ttttgatgca 60
 atcctcccat ggagggggcc catcaccaga gtcatggta agagactcca ggaagattgg 120
 gccagggatg caagagaatg ccttaggggt ctcatgagcc ttagggtagc ttttgggcc 180
 atgggttaag tatgtgcca cttatctttg ttcattatag attatgggtt cattattttt 240

ttgggccttg atttagggca ccacagtgtg gggaggggtac cccataagtt tagggtagcc 300
tagtaatgta ggatttttca gcccttgat tttagggctc acagactagt ttttgatca 360
gggatagttt tgtaatttca cat 383

<210> 21922
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21922

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ttttgtaaaa ggttttgaga aaaattcatg tgctactcag tttttgaaaa aactttttta 120
tacttatctt gattgagtct tctcttgatt cttgaatctt gatcttgatt cttggaactt 180
gaatcttgaa acttgattct tgattcttga aatcatcatc tttgttaaca tgaagtgttc 240
ttgagttttg agctttttgt catcatcctt gttatcataa aaaatccttg aatcaatctt 300
gattcatcat gaagcttgct tctacatgaa agcatttgaa aataaagcaa caattaggca 360
atatatgtat atacatcaag catggccaan atacatcatc aagcatg 407

<210> 21923
<211> 377
<212> DNA
<213> Glycine max

<400> 21923

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tagacattct cttaaagatt tatgcaataa tatgggtttt gtatctatga ttgaacctaa 120
aaatataaaa gaagtcatat tagatgataa ctggatcatt gccatgcaat aagaactgaa 180
ccaatttgaa agaaacaatg cgtggaaatt agtagaaaaa cctgaaaatt atcctgtcat 240
aggaacaaaa tgggccttta gaaataaatt atatgaacat ggtataatta ttagaaataa 300
agccaggtta gtagcaatag ggtataatca agaagaagga ctagactatg aagaaacata 360
tgctcctgtt gcaagat 377

<210> 21924

<211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21924

agagagtgga natttgatac gtagcattgg acgcactcga tataactact aagcttatca 60
 attggattac gcttatatat atatatatat atatatatat atatatatat atatatatat 120
 atatatatat atatatatat atatatatat atagggtggaa gcccacgctc gacattccaa 180
 tttttattcc cattacatta tattggaaaa ttctgtaata tctgaatccg gtacgatttt 240
 caaccaacaa ttaaaaagga gtcaaagtgt ttcttctgta taaagaaagg acacatatag 300
 aaggactgcc ccatatttaa aagttggtgt gtgaagatag gtacaccata tactatcggt 360
 tgttatgaat ctaatatgat taatgtacat cataatacat ggtggataga ctctggctct 420
 acaatccatg tggctaataa ctgcgagggt atggaaagtc tatagaagcc agctggttgt 480
 g 481

<210> 21925
 <211> 297
 <212> DNA
 <213> Glycine max
 <400> 21925

ccaaactgaa atgagatgcc atgatgccat atacccccta aggattttta tttaaaaagg 60
 gatcgaagca ataatacagta tgctgctgaa gaatgcaaac accaaataag gggaagattt 120
 gttgaaatga gagacgtgta acatccaaag tgtgggctac gttaacatgc cgtttggttg 180
 agttaaacac aatggttgag gatgaaacct ttgacataaa tctgttagaa ataccccata 240
 tctctgtag accacttttc ataaattcgt ctatactgta caagtcaata tgatctt 297

<210> 21926
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 21926

agtttttaca cttagggact aatgtgaatg aaagaagggg ttggatgact agaagaaaga 60
 aataggggaa tgactaaaaa ggaagggttc ccctaaggga tagactcagg ctttagattt 120

cttcactaga gagctttgag actcgggtgtg ttttttcctt caacttccta ttccttttat 180
aagcctaagg tagcttactt ttcacgctga caacatgcac ttctagtagc aagaatggcg 240
gtttaatcac gcgcttagcg cagtgttcgc actaagcgcg accctatgcc ttctttgcac 300
taagcgcgag ctggccgctg agcgagcatg catgctgggc tcgtctcgtg tgctaagcaa 360
gctgtccact tctt 374

<210> 21927
<211> 399
<212> DNA
<213> Glycine max

<400> 21927

ctccgcttga ccttcttagt tgttctttgc taaaattttc ttattgtttg caaataaatt 60
gtcaaaatac tgaacatctt taggggtgagt atcacatgta aaattaaaaa tatgttaaag 120
atTTTTatta ttgtttttag tgataaatct tattttaaaa tcttagatca ttcttaatag 180
gtctcacatg aatcttatct tttaatattt aaatattttt ttctttttat tttctttctt 240
ttactttctca tttctcagcc gtcatgctct ctcaatcctt cttttttttt tcccaatggt 300
cacactttct tatttttctt ttccttcctt gccactcccg tccccctcca cttcatgctg 360
actcaccctt accctcccc tcccctctgt aacttcctc 399

<210> 21928
<211> 283
<212> DNA
<213> Glycine max

<400> 21928

aatcttattg caaccacgag attcagctcc tgagaggaat gtacgtgcta taactaccat 60
ggatggggcg ccatacacia agtcatgggt gacagactcc aggaagatcg agccaaggat 120
gcaagagaat gccataaggc cctcatgagc catatgggtat cgtatagtgc ccatgggtta 180
aacatgcgcc cactgatcat tgtgcatatt atatcatggg aacactattt ggtggagcct 240
cgactcatgg cagcagattg tatgcaggga tccacataat gtt 283

<210> 21929
<211> 408

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21929

 aactaagcgt taagaattag aattatgatt tttgaggcat gttttataaa tgttgattct 60
 gatagcgcgt atttgaaatt tcattgattt gtttgacat cctatgtata aactataaa 120
 atgggataaa tacattggtc tttagatttc accttaataa acaaagctga tgcttcacat 180
 ggatattgat atttgaacca tctctgcagc tacttctac aacaaacaac acaaattaat 240
 aaacattaca aaaaacaatt gtatggctta tgtaaataaa tgtatcaaaa tcaaatatat 300
 aaatacaaaa ttacatctga caatgttaat taattctctt tcatcatgat cattacgatt 360
 agcatgaacg tcgaaggctt ttttttcttc gacaacatta tgagtgat 408

<210> 21930
 <211> 264
 <212> DNA
 <213> Glycine max

 <400> 21930

 tgtctgcaag cttgtggctt gttcacccat ttgtgtgtaa ggtaggaga tttatcatag 60
 gaaaatgtac tgcattcatta gaactggata ggacaaggct cggttatcga actaccagac 120
 atggagagcg gtattttaat ttttatcatg ctgtaattgt aatgctaggc ggataggcta 180
 atttcaacaa gagacatctg gatgcaaagt ttaatttgaa ttatgccaaa ctgccagac 240
 atcggtgtta ggtatctgtg cctt 264

<210> 21931
 <211> 414
 <212> DNA
 <213> Glycine max

 <400> 21931

 tcgagccaaa atcccaagtc actataaacc ttgacttata gtgagaatgc ccatccttgc 60
 cctcagaaga aaacaaaaca aaaaaagaaa gttcccgatc aaggattgga agaaagcaaa 120
 agaagaaaat tccaatcaa agattgggag aaagcaaaaa gaaagaaatt cctgatcaaa 180
 gatcataaga aaacagaaga aatatgcaga aaggtctttg gactagacaa tatatgaaca 240

atacagaatt gtcaccacca aataaggaaa gaaaggaaac cacgatatga agtggtcctc 300
 tccctttgat aagaaagggtg acttttctgt ctgcactaa acaaaaacag aaaatgaaaa 360
 ggccaaaaca ctcagagcca aatttcccac caaaaacacc attcccgata aagt 414

<210> 21932
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 21932

atctgtatat gtatcatata actattagca ttatgcttct aagtttcttg gaaaacatag 60
 aaggatataga gttaggctctt cattaagaac tgtctgaccg acaaaacaaa cagctagtct 120
 atcagcatgt aacttgatgc catgcaagtg tattcagtaa aaggctttgt acttttgact 180
 ctttgatggc cgtgatgcga gattgtgact tgttggcata gaatctctaa gatataccaa 240
 acagtgaggt tttggctctt gaaatggtgg tttgaatgcc ggaaggatct tgtggtgcta 300
 gaaagaatgc ttgagcagct gatcttgcca atgccaaaag gagaatctag acttgt 356

<210> 21933
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 21933

tggtgatagc ttgtgatgtt gcttgagcat tgagttttat ttatttttct gtggagattc 60
 acgtcacatt ggaaagtga atcaaaaccc aatcgaaagg actcacgatt catattaaaa 120
 cactaagaaa tgagtgaagt atatcctatg ctagttggcc ttgttgctta taaaaagttg 180
 aataaattat gttgcatgat ttgcattctc aaaattttat ggacatggga tctgaatgag 240
 ttcgattata tataaaatta acacattctg agctttcttt aaatgtaaaa atatgctcat 300
 tttcataa 308

<210> 21934
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 21934

ctataaaaact cagcttctaa acttgtactt aatgaagctc ttataaccatt tgttaaacaa 60
 gtggcctcag atatcttaag aagggggggtt gaattaagat atcacagact attccccaac 120
 taaatattct acttttaatt tgatccaaca acccaaaatt ccctttaaaa atgaactcct 180
 aaataataat gcaaattaat tcttactgaa tagaaataat aagcaataaa caataaagga 240
 gtttaaggga agagaaaatg caaactcaga tttatactgg ttcggccaca cccttgtgcc 300
 tacgttcagt cccaagcaa cccgcttgag agttccacta tcttgcaaaa tccctttaca 360
 agttctgaac cacacaagga caacccttcc tttgtgttca aatttcttta caacaag 417

<210> 21935
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 21935

agtttttatg atgtcattat atacactctg acaattaata gcattttagg ttaaattcct 60
 ataaataaaa gcaacaatga tgcgcatacg ataactctaa ttctaaaaca tatcatgacc 120
 tatatttatt acaagaattt aatttataga aatttaaagc cttttcttct attttccatt 180
 atataataa taccatcata ggaatctttt ttatattatt atctaattgat gtggaaaaac 240
 atatcaatat ccatatgcac atgtgcatgg aggacaaaaa gcaaatatgc atatttgaat 300
 catccagcca tagatgacat gga 323

<210> 21936
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 21936

cccatgcggg cacatataat ggcgtaacat atggggcgag aaccttggat gctcttccaa 60
 tcatttgcta catgatcaat atcgttttgc aagataacaa agcatactct tatgtttcag 120
 cccctatctc tatccgtaac tacgattgaa tgcgtctcgc tttcatgatg acgtaccggg 180
 tcaactgacgg acttagagtg cttgccttgc cgccatgcta acttattata cgtgat 236

<210> 21937
 <211> 373
 <212> DNA

<213> Glycine max

<400> 21937

agcttttgact tgagtcacatca agagattata aatatgtgac catggcatga gtttcaaaaa 60
tgatcaatca tctttgaatc atctatcttt caatctttct tcaatatcat atctcaaaca 120
tctttcaatc aatctttcaa tatcattcta caaaattttc tgattcattt ctcttcatct 180
ttctaaaagt tttttatcaa cactttctct tccaagaaaa gttctttgtt caaaaacttg 240
tgctattcat ctttttcatt ctctcttcc tttgccaaaa gaacaaagga ctaaccgcct 300
gaattctttt gtgtctctct tctcccttac aaaagattca aaggactaac cgcctgagaa 360
ttcttttgat tct 373

<210> 21938

<211> 424

<212> DNA

<213> Glycine max

<400> 21938

agctacaaga gcgtgggaaa gttagataga aagtatgttc tactgatatg tatagcattg 60
tagattgttt tcattgctga aaaagttgca tctttattta tccaagatgt gtataatttt 120
aggttttgtc atttttttat gggtagagct tctttcttta aattcttctg ccaattatct 180
tcacttgctt gtattaattt gtttagaagc tataactaaaa attagttatg gacttgcggg 240
agttgggttca tgagtcctaa aactcttgcc acgaaactaa tattacttgg ctagagcaaa 300
actaatatta ctcttgacaa attttctac tgggtagaca agtatccaga gggtataagt 360
agtatatact gggttaagtt cgacaaattt ccttataata tgtcttcaaa attccaaatt 420
aact 424

<210> 21939

<211> 383

<212> DNA

<213> Glycine max

<400> 21939

agcttgata taattatcat ttgttttggc taataacaaa ctgaacgtta cattgttaac 60
attagatagt gaatatctat cgactagtga atagaatgaa atcttatttt agttcgttat 120

ctaattttac ctttctcaat aattaaagct tataatcttc taactccogt ttcgtcttta 180
 aaatgtatct ttaaaattta tgagtttaat aaccatttta gtatataaaa atttacatgg 240
 tcaattatca atcaattaaa agtcataaaa tcattctcat tataattttt aaaatagtta 300
 tattataaaa ataataaatt tatcatatga gatgctttgt cattgatctg tgattgaata 360
 attaggtgtg ttatacttat tct 383

<210> 21940
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 21940

agcttgtgtc tctagttcct cccgaataaa tctttgtgtt ttagtgtaa attatctatt 60
 taatcaatcg tttaaaaaaa tattgttaga atataaaatc aattagacat tttgctttgt 120
 gttaataaaa acacggaaaa aataaaatat gacagataga aaaggccgaa gaaattaaaa 180
 aaagaacaaa aaatggaaaa gaagtgaact caatcctatc ttactctttt tagtgtggca 240
 tgggtgtgatg accttgctct ctgccattta ccattttcat catagcaatt catctttaca 300
 gcacatcatg tacgtacctt atggctctat gcgaatggat taatt 345

<210> 21941
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 21941

agctttataa gtgcggttct tgttgacaaa ggtcaagcgt tcgcatatg cgaagatgat 60
 attccgagta ctttggattt ggtacgacca tgctctctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaacctt tacggtttta 180
 aaagctctat agttgggcct aggctttaga gctttcattt tgtaaggct ttgtgtcttt 240
 tgtttttgaa tttataatac aaggatcttt cttcatctgt tcttggctct taccattct 300
 cattcatttg catgtttact tctttttcta aaacggcaga ttcgatgacg agtccccga 360
 aggtactaat acc 373

<210> 21942

<211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21942

tagaatggct agacatgata catgtcangg tttggtttgg ttcaaagctc tgagaatggc 60
 tagacatgat acatgtcagg gtttggtttg gttcaaggat aaaagggatg cccacacatta 120
 tttccatgac acaaatgcaa aaatgatgat ttggaaactt catgcaaac tggtcatgca 180
 tgcacctatg tggacactca agtgtcaa atttatgggtc atgtgatgct aggactcaag 240
 attcatttcc tctattttta atcaacccaa tgtttccaaa atatgttctt ttatcaattt 300
 gtgcattcat ccaagtccat ttcgggcgtc cggtgaaatt tcacagcatt cacccttcag 360
 gtgtagacac atttttcaaa aattggttat gatcaatgaa ttcttttttc 409

<210> 21943
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 21943

agcttttcta atttattcaa taagatgcat gaataattta atcataaatc ataaattcca 60
 tacatgatgt aattattcat gtatcttatt gaatatatag atcttatggg tatttcatat 120
 aattagttaa ttaactgggtg attattttct gaccaagcct ggtgattatt tcatacgttt 180
 agttaattaa ttgattttgt tttatatttt atttattaat ttttcataat ggagatgaat 240
 tctagacaat tcatgtttga aacacaggat gcattgttta gtagcattta ctttgtgatc 300
 tgtgtctcag tttgtgttgg aaagactagc tgtactcagt ctactgtgat ttgttttact 360
 tcat 364

<210> 21944
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21944

ctcttcacat ttgaatttga atttcaacgt tcaaaggcac tggtaatcga ttaccaaacc 60
 attgtaatcg attacaactt tttgaaatca gttggaacgt tgtaaatcca tttgaaaact 120

ttttcaaadc cattttgcta ctggtaatcg attacaacaa tctggtaatc gattaccaga 180
gagtaaaaac tctttggtaa acatgttttg agaaaaatcc atgtgctact caatttttga 240
gaaaaacctt ttcatactta tcttgattaa gccttctctt gattcttgaa tctcgagtct 300
tgaatcttga tctcttgaat cttgattctt gaaatcttgg tctcttgact cttgattctt 360
gaaatcaaac ttccttttga atcttgaaga gttcttgaat ctat 404

<210> 21945
<211> 382
<212> DNA
<213> Glycine max
<400> 21945

agcttgcttg tggagctttt atggaggctg gatctttgag gtgagaggag gcgccatcca 60
ctatggaata agccatggaa gaaggagctt cgccaccaag agagtgcctt ggataaaaag 120
cttggagagg gtgcttcaat ggaggaaaag aaagagagag agaaagagag agggggggagc 180
atgaaattga aggaagaaaa gaggaagaga agttgaactt tgaagtttgt ctcacaagac 240
tctcatgcat caaagttaca acaagtgtta cacatgcttc tatttatagc ctaggtagct 300
tccttgagaa gcttctttga gaagcttcct tgagaagcta gagcttagct acacacacca 360
ttctaataac taagctcacc tc 382

<210> 21946
<211> 424
<212> DNA
<213> Glycine max
<400> 21946

aaccgatata ctaagtaagt taccaactca attgtatgct agtcaaccgt taccttcatt 60
tgttttgcag gttacagggt gcacactttg tgggtggagct catggggccag gcttgtgtat 120
tcccactgaa gaaacatctc atgaagttaa ttacatggga aaccagccta gacaaaactt 180
taatgtagtt ggattttctg gatttcaaca tggccaacct taccagcagc ataataatg 240
gagaactcac cctagtaatc agttcaataa agaccagggt gggccacctt ataggccaca 300
acaacaaggg cctagcttat atgagagaac aaaaaagctg gaagaaactc ttgctcagtt 360
tatgcagggt tcattgacta atcataagag cacatagtca gccataaaaa atctagaggt 420

ccag

424

<210> 21947
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21947

ttatgcaagc ttactctcac ataaagctat atcagaacca gacattacta atgaaaatta 60
ccaatcatcc tttcctttgt ggaactttaa atcattcaaa atctcaatgg aagcataaca 120
attattcaca gaaaagttca ttgctaagtc aaaacaagaa ttcatacagga taaatttagg 180
acaagatata gctaaaaatt aaacaagcta tcaaaatgag gctagtacta tagcacatgc 240
ctctttgngt agaatgtaca aactaagggtt acaaccaaag tcaactacctc aaatgggtta 300
atccatgtgc atacacaaaa ttaagaagat agtccccctt aggtagacat atccttaact 360
tagtatgttc c 371

<210> 21948
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21948

tattagaaat ttcattgtgt catgtgataa agaccttagg aagctaatta ttgtctcccg 60
gaagaagatt tacagacttc ttcaggaagg ggggttgggt gtagatcaat caaatcgatt 120
aaccgagcat ccattcttgc acatacttga agcatgatga ccaatgatct tgggctaagc 180
aaataaaagc cagccagagt tttcaacgat aactaccgca tgcgggggtta tattaagtct 240
tttatatggt tgggttgaag cttttttgga actcggttag ccaaaacacc ttttgatgc 300
ttggcaatgg caaagaatc aatntttat gcgataattg gattcaacaa aatattgctt 360
caaccttgaa tattctagaa tcttatcaac aacatcttca agccttagt 409

<210> 21949
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21949

agcttttggtc ctattcaaact agccataact tttgacatgg gggtagcatt gaggcccatg 60
atatatcgag aggctcgaaa ttgaaaaatg gaagttctcg agaaattcaa atggtcataa 120
cttttaactt ggatgtccga ttcacgcaca taatatatcg agacacacaa aattgaaaaa 180
tggaattctc gagaaattca aatgttcata acttttgcct cgaatgtcag atttaggcac 240
ataatatatc gagacgctcg aaattaaaca agaaagctct ggtccaattc aaacggccat 300
aacttttgac atgagtgtat gattgacgcc catgatatat agagacgctc gaaatngaatt 360
aatggaagtt ctcga 375

<210> 21950
<211> 412
<212> DNA
<213> Glycine max

<400> 21950
tcattgccta acaagccaac ttacaacagc aagccttatg agactcatca taaggatgca 60
cagggtcaaag ttgagtatgt gaaaagattg tatgaccaag tgaagggtgca aattgcaaag 120
aagaatgaaa gttataactaa gcaagccaac aagaaaagga aggaagtggg acttgaaccc 180
ggatgatgatc ctggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
catgaaacag gccaaatata gtctaaaggc ccaagtggag aaggacaaag cccccgagtg 300
gagaaggatg aatgcccaag tggagaagga tgaaggccca gaggcagaga cactatcaag 360
actattaatt gttgctgaag gcccaaacta atttgaaggc ccaagttaaa ta 412

<210> 21951
<211> 540
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21951

gagatgcac cacacgaatc gaggaatgta atgacacgaa ccgcatctnt taaatataaa 60
gagcagtaag atgaaccctt gactgacgcg ctcgatacac tgggaagctc agaanacaca 120
agccactcac cgcgggggagc ggaatatgta aatggaagtg ttttgcgaaa cgctaggcac 180

tcaacgaaga attggaaaag aatcacaaca aggaaaaagc ggtaggaaca gctaacaacg 240
aagccaccac agctataaag acgatctggg gacaccaatg caagacacgc cgagcaagca 300
acagacgtgg gagacacaac gccaaagatta gccgaccacg ctatgaacag acacaagagc 360
gagcaccctt atgtgaaaat aaccgccccg cgcataaggc ccatcgcagc agacgctgca 420
agcaacttaa acaatgaaca ccgtggagga gaaactcgag attccatggc ccagcaccta 480
gaacacggcg ccaccaatcc cctttgcacc gaagaatacc gatggatgaa cacggggacg 540

<210> 21952
<211> 542
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21952

aaagaatggn nnaccagccc accacnccga cgcgnnanga ngnggaagag ggagaaacaa 60
gacgcaacan aacagcaccg gagnaantt tgagccctgt gaagccctga caactcnagg 120
cgaaccacgc gcagccccgg agaccctctg caggcaagca ggctgtctgc aatcatgccc 180
aaaagatgca tgaaggactt caataacaga tcaagacgtg catacaggac ggaacgactc 240
acgtacatca agaagcaaca gaacacatgg ggagaaaaca gaaagcgaaa aagaacaggt 300
gaccatgagg tgaccgagcc aggtgaacat agacaacgac ggagacaaca acctgaacca 360
gataagtacc tgactagcc aatgcgcgag acggagacga atgagcaaca ataccaggat 420
gggccgcagg agacacggcc taccagcgaa gcacggggcg gcagagcaaa aacagagcaa 480
taaaacaacc ggacagaacg ataggcggga acaggataag caatgcgcag atagacggtc 540
gg 542

<210> 21953
<211> 126
<212> DNA
<213> Glycine max

<400> 21953

tgttcagaat tctaaagtaa tctctaata ctaatgtcac gtgacattct aagttgagta 60
gtgattaaca ctttgattta ttggattgat tatagaacta atttctttta atctcagatt 120

<210> 21954
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 21954

agcttggtga gaaaagggtc aagaagaatt accatcctgc ttgggctgct gcttacattc 60
 ttgacccgct ttacttagtg aggacacta gtgggaagta ccttccgccg ttttaagtact 120
 tgacaccaga acaggagaag gatgtcgata ggctcataac tagactcggt gcaagagatg 180
 aagcgcatat tgctctgatg gagctcatga agtggaggac agaagggctt gacccggttt 240
 acgctcaagc tggtcagatg aaggagaggg atccggtcac cggaagatg aggattgtca 300
 atccacagag cagtaggctt gtgtgggaaa cttatttgac tgaattcaag tccttgggga 360
 aagttgcagt gagg 374

<210> 21955
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 21955

tagaagacac attcatgaat aatgaccaat tgggtgttaa gttccaagac ttgggtggaaa 60
 ataaaagtca tacattcact agattttgtg atgtgttatt gcattagaat cttttttttc 120
 acaagatgct tatggactat atagtctttt gaaaattttg aaagtacctg taagagaacc 180
 aaacaatgat aagttagtac ttttctaata aaattggaca tatcactctt gtaagcatat 240
 actgataaat tgagaggagg tccaattatt tttaaatagt cttaatgggtg gcataagggtg 300
 agttgatgat gatagtagac acttataaac attaattgtt aagtgaatta taactcaagt 360
 agagttttta tacttagtga caaatgtgtt cttgtgggag gtgcttactt c 411

<210> 21956
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 21956

ttagacaaaa tggatgagtt ggagagatgt tcatgttatg ttgattgaag agtttcaatg 60
 ttgtttatat ttacatatcc atctgattca aagtctgac cttttgatgt agtggttgcc 120
 attagaaaaa ggttggtttt ttctttctct tcttcgattt cctcatcgaa tgatgtgtca 180
 tcttggtctt cccaagtgt cattagtact ttgttgcct ttggcttgaa gtaccttttc 240
 ttgtggtatg tcttttcaag atctggatat tctgacttga agtgcctgg tttcttacac 300
 ttatagcata tgatggaact tttatcccta tctttccttt ctttatatgg attcttggat 360
 cccttcact ttgattcgtt ccctttcttc cacatgttcc tta 403

<210> 21957
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 21957
 agcttgata atggctagac atgatacatg tcatggctctg gtattgggtca aggataaaag 60
 ggatacccca cattatttcc atgacacaaa tgcagaaatg aagatttgga aattttatgc 120
 aaaactgggtc atgcatgcac ctacatgggtc gctcaagtgt caaattttta tgggtcatgtg 180
 atgctagggc ttatgattca ttttctctat attaaatcaa cccatatgtt ccaaaatatg 240
 ttcctttatc aatttggtca ttcacactag tccattttcg gcgcccgggg aaatttcaca 300
 gcattcacc ttcaagtgt gacacattgt tcagaaattg cgtatgatca atgaaatttt 360
 c 361

<210> 21958
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 21958
 gtgctttatg cttaaaagcc acacactgtt caatggagtg tcatgggaca ccaccatgat 60
 aggcgaatgt aatgataggc gcatgtaatg ttgggattat accatcgggg aactagaggt 120
 tcatagatct ttctggggt tactattgct atttggttat caagaaagta tggtagtagg 180
 ttaatgtatg acattggaat tggggcaa ataggactgggt tcttttctgg gaaatctctt 240
 ctgggttagt gtttaggata ggattgggag tagtggttgg tctatgttgt ataaggggtg 300

gattctgtgg gtgattttgg ggtggtctat gagggtgatt gggaactctt ggtccaacgt 360
ggactgggca tggggagggt taatat 386

<210> 21959
<211> 384
<212> DNA
<213> Glycine max

<400> 21959

agcttttacc ttttttattg cctgactggt acaacttaca agttgcaacc catttcttat 60
agttgttccc cctcttatta tgttgtttgt tttgagaatg tttcttggtt tggctcctta 120
gaattaattc tctctctctc tctctcaatc ttggatcact tatctacttt gaactatttt 180
tcttgatgc actgagacag cataacttat gcttgatct catgcttcag tctgagtcca 240
gtacaagtcc catatctttt tcattttata attcgctttt gggatgtgca ctacagggt 300
ctcagtctca gagctaaatg tagcacaggc aaattttgat aaagatgagc gtgtgtactg 360
tgtgcgatgt ttctcacttt tttt 384

<210> 21960
<211> 425
<212> DNA
<213> Glycine max

<400> 21960

agctgtaaga gtttaacaga ttgaaaagcc cccaagttat ttctagttag agtgtatttg 60
ttttaaatag tttagtagct tacaagccag ttaacatttg accaaaaata agttattaaa 120
agtgtttggt tagaaagttt ttcttgaaaa aactacacca agttaaaaat ttttaattga 180
taagttaata aagtagcgta tgacttataa gagtgctata ttttactctt gttaacttct 240
ttttttaaaa aaatgacaac ttatttacta aatattttca tttcatgcag tctgtactct 300
gtacattcat gggcaacctc gtagtacagt tgagacgcgt gttgtaagat attaaaactc 360
tgtgaaagtg gcttgccata tttcattttt aagcatatat atgtggatga agcttgatat 420
cttta 425

<210> 21961
<211> 290
<212> DNA

<213> Glycine max

<400> 21961

ggtaatgact gtgcctgaaa ccagctatgc ctctgcgatg aaatttaagc tttctcctgt 60
ggcacttggt attttactag gtaactattc acctttactt ggagtgtccc aacatagtgc 120
cttcaacgcc gggcgctcca tgacctctac ccgcctagtt tccgtcagac aaaagggggg 180
gtattctgca gaggagtccct gcaaaccgcg ggacgtgcaa cccatcgaat aatgcccttg 240
agtgcctctt acatgcgtcc aatacttctc actgattcac attgacatcc 290

<210> 21962

<211> 380

<212> DNA

<213> Glycine max

<400> 21962

agcttggaag attccactac gattaaaggg ttcctctcgg tgtgggggtt caacggagag 60
ctacggcggc ttatggcggc caccggtggt tgtgggtggt ggagaagaag cttgggacgt 120
tggaatggt tttggggaag aggaagagaa aggaaagact gtttttccaa ggctacacga 180
aaaataaggc ttgcaacact caagtgttct tgctctcggg aaaggaagcg tcttgaacac 240
accagaattc atatcgcaaa tcgcaacagt cagatcgtgg aaagctgtcc tatgaacctc 300
cagaccaagt ttggagatga tccaactggt aacaaatgca gaacggtggt tttaccgaga 360
gagcttcaca cagcttcctt 380

<210> 21963

<211> 179

<212> DNA

<213> Glycine max

<400> 21963

tatggactta cttgaatta attcctttgt taaccctttt gagccttggt tccctttcct 60
tgatttgaag ctactacaa gccttaagtg aaaaaccatg atatcaccat atccttaagg 120
aattttggag ctttgaatt gttttgggaa taagtgtgtg tgtgtgtggg gggggggggg 179

<210> 21964

<211> 382

<212> DNA

<213> Glycine max

<400> 21964

agcttaaaca ggttttagctt gatggatagt attagaagat atgaaaatat ctaattatat 60
tttaaagtat tttctattat gctttggtat taagtggat cctatttccc cgttttctct 120
taggattggt tacatttctt tatcccatga tttagtacct agtagcccat tcttgaccac 180
aagggatgac tccaaatact cttaatact taagcaaact ccaaaataaa tattagacaa 240
acaataaga acaacaagt cttaatcaa ggagtatact tccatcatcc ttaacatcat 300
agccttaaaa gcctattacc ccaaccacaa aggaacatag agacaaacta actagacctc 360
tccattcccg tttacattat ca 382

<210> 21965

<211> 380

<212> DNA

<213> Glycine max

<400> 21965

ttataagcgc gggctctggga aattggtacg accatgccct cctgattttc agcttggatt 60
tggtacgacc atgccctcct gatttccagc tgggaaattg gcgagtggag gaacgctccg 120
gcatttacgc gacgagcata atgtaaacct ttacggtttt aaaagctcta tagttgggcc 180
taggctttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg aatttataat 240
acaaggatct ttcttcatct gttcctggtc tctaccatt ctcattcatt tgcattgtta 300
cttctttttc tgaaacggca gattcgatga cgagtccccc gaaggacta atacctggga 360
cccgttatc gattcgagc 380

<210> 21966

<211> 366

<212> DNA

<213> Glycine max

<400> 21966

agctttaacc tcatcgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
ccggactctc agccacttat gatagccgcc gatgctccca ttactgcttc ccctaagctc 120
tttgccttt ctccacaccg catcacatgc cttgtgaatt ccttagagta cctcgcatt 180

ggggtcactg aaaccccggtg tgatgaaagg cgtgatgctt tcgtctgatg tcaactcctct 240
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aaccccttgt 300
tcccatcaag ggaacatttg gacatccttc gcatgaagat agaatcctga ttcttccttc 360
gttcta 366

<210> 21967
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21967

catctccagc ataatggtta attgtgaaaa agtctcatga gttgagggaa aatgctgtag 60
aaaacaagaa tataattaca atttcaacta ttatataatc aattaaaaat gcgacccaca 120
aaagcatatg gattatggta aacagaagat ttcaaaaata actaaagaag taagaagata 180
atacacaatg ctatattaac tgtaattgtc aatcatatta tattcggaat aaaagccatt 240
aaccacagga atgcttttca aaacaaaaaa taaaacaaaa gaatgtttgg aggtcacagt 300
cacagtaatg tagaacctgc acagatcgaa ccaagcatac gaattctaaa tctaagaaca 360
aaaaggaaga aaactacaca ttctcaagct tacatctnca gcataatggt taattgtgaa 420
aaag 424

<210> 21968
<211> 380
<212> DNA
<213> Glycine max

<400> 21968

agcttattaa aatgaactta caaacttata aaaatattac aaaccgcttt tataagtta 60
aataaactct accaagatgtt ttatatattt caagccaaaa gaaagtataa ttgcaaaag 120
cattttccct tattaagggg ccatgctaaa gagtcaattt atataatact ggaagcatag 180
aagcagtacc acataaacia accctataca agtttgcttt cataattgac ttaatctgtc 240
atgctggctga gtggtcgccc tttagcataa gattttgaca gaatcaacat catccaaacc 300
taataaggta gggtagtta catagattca attccatttt gtgttatact cttatattcc 360
aattatatgt atgaaaaaga 380

<210> 21969
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 21969

tgtccatata tagagtcatt acttgcata ctttgtatta cgttcacgaa atatttaagc 60
 atgtataatt aagtatctcc ttgaaaagta ttgaagattt ggtccaaaat aataagaacg 120
 catgttttgg cgtatgcatg atattcttaa tgggtacaagg tttgtaaaag tggcacttat 180
 gtgggtcaaaa taaacttgta gaagaagaaa gttacgacca gtgatgattg gcattcttaa 240
 tcaagtgtgc acaatagggt tatttcaatt agtgcgtgctt tttgtgtatc aattatgcac 300
 ttaattggct ttaagattct ccgtccaagg aaatattgtg ggcgcgtcat tgtgcaagtg 360
 aatgagacag aaaatgattg gagagcaaga atgaataaca catgcaata 409

<210> 21970
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 21970

agcttgaata aaataatgga aaaaagggaa aaccctttgt atttttaaaa caaaaaagct 60
 tttctctctc ctcaactcagc caaagcagaa attcagaagc cttttctctc cctctctcac 120
 gtagctttct tcttcttcat tctccattga agcttcaagc aaagcttcaa cctttggcca 180
 ccatttctgc cccaaatcgt gaaaggagag catatttgga gtcgtgaagt gcgtggctac 240
 gagggggact tcgaaatttc agggttgggt ggacttctat cccttttgat tttcgtgggt 300
 atggggggtt gcgagatatg 320

<210> 21971
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21971

ngagcgtagt ggaagaaaag ttcttgatat agatttttcc tccttctaga tatatcagtg 60

caaagtcaga tgtttccact ttcaagttaa aaccagatga acccatctgt gaagtctgga 120
 agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttacccatc 180
 taagcatatt ttgcaatggc ctaaggccta aaactaagat gattctggat gcagtcgcta 240
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
 caactgatca ccaatctcag cataacagac aatcgatata taaaagagga gtgttgatc 360
 tcattctcaa gggctcttca atggaagtgt ataaacattt tg 402

<210> 21972
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 21972

atgataacga agaatatgac gaatagctca taagtcacga acacttcatg ataacaaaag 60
 ctgacaatct caagaatcaa agaatgagct taaaattgaa tcatgtacac ttcaacgatc 120
 aagaggaaag ctgaattcaa gaatcatggt tcaagatcca agttccaaga tccaagatca 180
 agactcaaga ctcacgattc aggaattaag agaagactcc atcgagataa gttctaaaag 240
 ttttttttaa aaaaaaaact ctgaatagca catgaatctt tctcaaactt ttaccacaaa 300
 gttctactct ctggaatcga taccagatat t 331

<210> 21973
 <211> 716
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21973

ggagactgga cctgagactg tacctttgan tcccntnaan tctanatact cagctaaatg 60
 cgctagtgat gatcggttgc tacacanatt ttacctaggt ggagctggat ttgttccaga 120
 ggctaagtgc aaagccttta gatgcaataa acccggtcga tactatacta ggctgtacg 180
 cattatctcg ctgcgggaga ccaatggtaa tccggatcaa gagtggctca ttcgatgagt 240
 gaggtggagc ctgaactatg catcattctg tctacttggc tcacatgtca attatagcaa 300
 ttctgtgatt catacactca catagtgcgt tcccacacta gcatagtcgg tcgtcgatgt 360
 gatctcttac acgacagtga cagctgcctc tctacgttat gtactctgtc attctcttgt 420

gatcaatatg catagatatc tgcagacgta atacctgttc ngctatgtat catcaçacag 480
atgcatgccg gtagncgat cgtaacgact ctactcatcg cgcttagact cgacacatca 540
tgcattgata ggcgatacat catcagctct acatgtctga gtaaaatcac ccatacaccg 600
cttaatgttg acgcaagatg acgtcataac tgctcctaac ccgtacagca tgcgacagta 660
gcagtcgtcg tacgggtgaa cgggtcatct acttgacgtg gcgtacgtaa tctcgc 716

<210> 21974
<211> 321
<212> DNA
<213> Glycine max

<400> 21974

agcttgccgc catggaagtt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120
agaagcggta tgttccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggt gatgagtatt taaggaaaag gatgtgctca tgatttaagc 240
aaatattgat gaatatgagg agggaaactat ggctcgactt cttaatggtc tgactaatga 300
tatccgtgat cttgttgagc t 321

<210> 21975
<211> 310
<212> DNA
<213> Glycine max

<400> 21975

atttctcatg agtttccgtt gttcttttcg agcgtgtaga tgacgtatgt ccccgatcg 60
gacatctgtg tgaaaagtta tgaccattcg atcttctcga gagcttccgt tgttcaattt 120
ctagcgtctc gatatattat gtccccgaat cggacatccg tgtgaaaacg tatgaccatt 180
ccattttctc gagagcttct cgtgttcaat ttcgagcgtc tagatgagtt atgtccccga 240
atcgaacatt cgagtgaaaa cttatgacca tgcgaatctc tcgagagctt gcgttggtta 300
atttcgagcg 310

<210> 21976
<211> 360

<212> DNA
<213> Glycine max

<400> 21976

tttttgcaag cttaatgata ccaaaacaag atgattatta tacacccatc tcactacatt 60
aatattaacg atgacataat ataattctaa gcatgtacat agaacacact gtaacatgaa 120
tctatcttta cgtcaatacc acaacaatct ataactggaa gtcctagtgc tgcttatgat 180
agattaacac ttatcatcac aactacatag caataagggc actatcaacc acattcacia 240
ctgacctgta atgaagggtcc tgctccctgt gcttacacia ataaatggga cagaattatc 300
cactgcagct gcaataagcc ttaccagcac agtcgaatct aatctgagaa caccaccctg 360

<210> 21977
<211> 402
<212> DNA
<213> Glycine max

<400> 21977

atgaccgatc gtttacaaaa tatcttttca acgtgttatt ctcttgcta aggaccaatg 60
cataggagtt gggattggct tggagaagat ctttatcaag atcaattgag atcagccctg 120
cactgtggcc catcccacca aggttgtagc tctttatata tccccgcagc ttgcaatgat 180
tgacaatcat tgccgaaagt gatggagtat ggttgaacag actacacttt acaatcagaa 240
ttccaatgtc tttatgcttt acagacgggt tagctaatag tgcataatg gcaccaaaca 300
tcacagcctc ggcttctttt ctaacttctt tcattgaatg gttgggagga atgttgagga 360
catcctcatg atggtaagtg ctctcccaaa tgtcagatct ct 402

<210> 21978
<211> 298
<212> DNA
<213> Glycine max

<400> 21978

atgccaatct cccctgcaa aagtatcggg tgggtctgtga cggtccgaca tgggtaagta 60
tgcatatagt tcaactgatt tctgatacca tctattgttt gcagggatcg caccacaag 120
acaccagtg gaccgataa agttcaacag ggccctgagg tttccagctc tggttacggg 180
cctctatcag tcttacaagg tgcccgtaac cccccgcaa ggtaacgtca tcatatgtaa 240

gtatgcacat cgctcaactg atttctgatt tcatcttaatt gttgcagggga tcgcgcct 298

<210> 21979
<211> 404
<212> DNA
<213> Glycine max

<400> 21979

tctacttatg tggcatggca ggcttctctc actttcttgt ctccaacgcg agctttgacc 60
actgttcttc cttcccgca tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc cttgggtatc tatcaggcta gttatgccgc cgttgttttt 180
gcctaaacct atcccggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240
tgcacggac agacaaggct gcccacagag ggagtccacg gaggaatgc tgaccacctc 300
aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggaaga 360
tgggcagctt accaagatat cttcctcgcc tgacacgatg acta 404

<210> 21980
<211> 532
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21980

gattgtatgc gnnnnacatc gtcncctcn cgcactcaan annanantt nagagtaaag 60
tatcatatgt aataacntan cagtacacaa cagacattgg agcctattga agccttggat 120
gccatcgaac actcaaggcg aattcgactc gcacccgaga tcctataagt cttctgcagc 180
atgcagcttt tatattataa acagaaactt ctaagaaata agaaaaataa aggggaaata 240
agtaccggga caccaccatta aggctaaaga taaaaggagc ttataacgcc tgcccatata 300
ttgcaatacc tataaagact tgaacgctta tctctacac taataattaa attatctaca 360
tttacaatat aattgaaacc taagacgcta agctccctct atgatgaaaa gactaaacta 420
aagccatata cacaattctc ttaatccgtg attaaacagc aacgctttac tttcacgcca 480
caacgaaaac aacaaactct ggcaataacg agcatatctc gcaggaccag ag 532

<210> 21981

<211> 266
 <212> DNA
 <213> Glycine max

<400> 21981

accaacacta ctaatcgga tcatatatat cacactttac ccacacttta gtggaattta 60
 gtgaacataa agtttattaa gataatctat gagaatgtga aactaaaagg gtgtcaagaa 120
 tacatcatcc aataatttat aataaaacac gcaccccttg ctattttctc caatacacta 180
 tgcaaataaa agtggcgga aaatgtacaa ggtgagaatg ccaaagcttc tcttttacta 240
 tgtttaacct aattacacat gacttg 266

<210> 21982
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21982

agcttgactt tggtttagac atgattgata catgatttgg gacttgtaga aattgatttg 60
 ggcaagattg gatgagggga agtgtggttt tcgaaatatg ctctttgtgc agattttgct 120
 gtaaaattgt gcagcagaat tttgcacaag tgcagaaaaa tctatgtatt tgctggttgt 180
 ggaaagagta atgtaaaatg agttctggat gttttctagt agatcccaac ggtcacaatg 240
 taggcgtatg cactatagac ttccagtaaa attttgaggat cgatccaacg gttaacgaat 300
 tggatcgaag gaattgttac tggngtcttt gagtgagaaa agctgtaatt ttggttggtg 360
 tggtgagcag agttttctgc ctttgc 386

<210> 21983
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 21983

gagagcctaa ttggaatc atatgcacaa aactatgtga atttcgctca cgtttagatc 60
 cgcacggtct tgcaattcgt catgcttttc ctccggtggc tttggcttct ccactctgtc 120
 aattggtgga ttctccgctc tctggcggtg gccgcgctat ttccgcgga gcctcttctt 180
 tcgtttcatc ttattcttca gggttattct catcttctgt aattatattt ttgtaagag 240

atgtaaataa gttgaaatga taatacaatt ttcttccatt ttgctttat tatggattcc 300
 tcactgataa gtatctaata gctgcattac aaatacatt tgaatcctca gccacgaaca 360
 ttatgacaat gaaaatgcaa caaacgtttc cacaatctaa agggcaggac aa 412

<210> 21984
 <211> 71
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21984

agcttgact tgaggtnca nncaagctcc cgagacatga atgcaacaaa gatcggaatg 60
 atcttaccat c 71

<210> 21985
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 21985

tgtggtgggc attctctacg ccattttcat cgctgtctgc atgtaaaatg acgggtcaagg 60
 ctcttaagac agcaatgtaa agatgtaggg tatgataata gcaaggcaaa ttgaaataga 120
 atatgtatat tggtatttca ttgatccttt gcatgatata tataatacat gtacaagaat 180
 gtactatacc aattctaagg catgacagac gtgatccata atcagtggca tctgatttat 240
 tctatgcatt ataaggtaaa taaatataga atcaaggtaa cataggaaag taaatatata 300
 cacagcatat ttgcaatcat gtagaagata ttccctaata ctccccctca agttggtgag 360
 tgaatatcgt gaagtcccaa cttgttgccg aatgtcacia atagatcttt tcccatagc 419

<210> 21986
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 21986

agctttcagc caaaatccta actcaccata aaaaagagaa tgaaatttcc aatcaaagag 60
 aatgcaaaaa aaaaaaaaag agaaggaaaa ttccaatca aaggaaaaag gagaggaaaag 120

gaaattccca atcaaagagt gggagaaaga aaaaaaaaag aaagaatatt cccaaccaa 180
 gaatgggaga aagtaaaaaa aaaagaaagc tcttgggtcaa agaaaccaga agaaatgtgc 240
 agagaggtct ttggaccaga caatatctga acaatacaga attgtcacca aatgaacaaa 300
 agaaagaaaa ggaaaccata acctacaagt ggtcttctcc ctttgattac cagccaaaat 360
 cctgtgcgctc ggtgacttgc tgcctc 387

<210> 21987
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21987

tcaagcttga agaaagagtc atagatgctn gtataaaatc tattttttat agtttgttat 60
 cgcaatatgt attattgagc tcatcacctc acgaacgaat tctattaatt attttaatac 120
 ggtaattct ttggacataa aacataataa cttgcatttt acatgcattt gaaggatcaa 180
 atcagtataa agtaaaataa aggaggtaaa taaggagaaa ttgtttatct ttgaaggaca 240
 taatgagaaa ttgttaagaa aataatcaaa tactactgcc cagttagata ctttgacttg 300
 gtgccaaca gcaattagag tgcacaaaca atttctattt tgacttagtg tgcacgtgca 360
 acagcaatta tagctttcaa cgggtcaaagt tctcactgcc acattaacta ttgttgccca 420
 agtggcactt a 431

<210> 21988
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 21988

agctttgttc aggatttga aatttccacc atgtttactc atcaccagaa aattgtagtc 60
 gtggatggtg aattgccgag tggagattct aataagagaa gaattgtgag ttttgtgggg 120
 ggtattgatc tctgtgatgg aagatatgac actcaattcc attcactttt cagaaccctg 180
 gacacagcac atcatgatga ctttcatcag cctaactttg gtggttcttc aataaaaaaa 240
 ggtggtccaa gggaaccttg gcacgacac cattctcgac ttgaaggccc tattgcttgg 300
 gatgttttgt tc 312

<210> 21989
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 21989

tgaattgaac atcggattga agaagagcgc gagtgatgtc gttgaggcaa tcgatgagca 60
 ccttctcgtc gattactgtc gcattgtcga tcagctggag agcacgcgaa atgctccac 120
 ctaactccgc cagaaccatc ttgatcttct tcccttcaac aattcaattt ccaaattaag 180
 gtttggatat gcaacaccaa cacggagggt tcagattcag attattggtc tatctctctt 240
 ccaccgccgg taaaatgagc ggtgcattat tgggagggaa aaaaagttaa actgtaacca 300
 ctacatacta atgggccttg gctcggattg agccttcata ttgtaacca tgtcatgtgt 360
 tgatccgtac gtaactgtat tacatgaaga agcttggtat gtggtgatgg aaaa 414

<210> 21990
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 21990

agcttataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat tacgacgcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120
 attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttaccattt cttgaacata tcctataatt catagaaaaa 300
 catgcaaagt cgtacgtgca cagcatattg acccanaata ttaaactgaa aattcgatga 360
 aactaacaac attaacaat taac 384

<210> 21991
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 21991

atttaaattc aaatttccaa aagctgttac atacaatttt aacttctagt aatcgattac 60
 atactgtgtg taattgatta caacatttta aaatcaaatt caaaatttgt aaaagtgttc 120
 cagaaatcaa tttagccact ggtaatcgat tacatccttt ggtaatcgat taccagagag 180
 aaaatatcat atttttgaaa tttcaaaaag cttttgtaaa atatccttta cccaaaccta 240
 tgcagcatca attaaggaat tctttctaag atcctaggaa ctaagtacat cattcttctt 300
 gaatttctgg attcttgact tgaatcgcgc tcatatttgg catcatcaaa actttatatc 360
 atatatgctt ctacaatctc cccctttttt atgatgacaa taatttgaaa tcaagat 417

<210> 21992
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21992

tttatgcaag cttatactca gagcatcctt tgctatacac aaaaaagggg gaaaaagtat 60
 cctcttgctt aaccctcat ttgcaaagaa aaaacccatg tgcctagaaa ttaacaacaa 120
 gtgaaagaag attagatctt acaccgaaag catgcaacac cttaaaaagg aactaccaat 180
 ccaacgtgtc gaaggctttt ttgatatctg actttactgc cattttacct caaattcttg 240
 taatgcaaca tatttatagc ttctaagtga gtgcanatgt agttgggttat acttttgccc 300
 ttaataaacc ctagtgttgc ctctaaaatc ttaggggtta tagaagaaag cttgaaggag 360
 atttggtgat gattttgaat 380

<210> 21993
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 21993

tgcaaagtta tgtctcgtat cgttttaatc aattttctacc ttctcataat cgattacata 60
 attttttttg agtcaatgac tgattcattc aggagtctct gctttaatcg attaccatgt 120
 gatataatca attacttctt tttctataag tagttcagaa gtgaacaaga acactttaat 180
 tgattacttt gagtatctaa tcgattacat tgttcttgag ttgttttcag gttttaggaa 240
 gaacactttg atcgattaac aagataatct aatcgattat ttcattgaat taatcaatta 300

tctttagat ttaatcaatt acaagtgggtt ataattatctt tctctataaa taactagttt 360
gtgttctctt caaaatacta cacaattaac actataagcc tctgaatg 408

<210> 21994
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21994

agcttttttga tttatgtgat actttcttga tttttcaatt ggccttgggtg aataatattt 60
ccagaattttt ataagtagaa gctctatgca caatcatttt cagtttctaa tttggacaat 120
ctcaactttt gagtcaagat gggcaagtac agtgctttat ttcttctgtc aattgtttcc 180
tatttgggtca catttatcac caggagaata cctgtgcaga catcttagcg tctcgtgcta 240
cctcatgatt ntttgtggag tatgattttt ttgtgggtggg actcatacc cagttntatt 300
cagaggaatg ttgtaaatga taganatgct agacctaact ntagaattag gtagagtttt 360
ttcttggat 369

<210> 21995
<211> 389
<212> DNA
<213> Glycine max

<400> 21995

gggaaattgt ctcccaaatt gtattagatg tatatatgta gtataattgg tgctttgatt 60
ataattcact tgtaagcatc aatattttta aaggctccctc atttcgttaa atttcttaca 120
tggggttgat ggcgatgtta ttaatcattt tacctatcta acataccaat tttaagtatt 180
tttttatcac actggttgtc tggctaagtt ctttgttttg ctacacttat ctcttgtgta 240
ttcatacata gataatatgt catttgatag tatggttttg gtgtgggttg ggtagaaata 300
cttgcagctg actaaagagt attggagtta ctatatccat tggctaaaat caaggttatc 360
aaactagaca gcttacgtaa actcgtgag 389

<210> 21996
<211> 346
<212> DNA

<213> Glycine max

<400> 21996

ggtagccggc atatgtggta ctaagtggcg aacgggcat ggtgcaagtc gactcttcac 60
atccacaaat cacacattaa tccaccatgc ccagttgccc accttcaact gagctcacgt 120
acttccacgt agcctctata ctggttctt tcaacaccgg gtgccaatc attccttcaa 180
gcttccacaa cattcaagca attccacatt caaacattat gaactatcaa aaccaagata 240
cagggcatat gcataaaact ctctctaac acaaaccaaa ccacagcttt cttactcaat 300
accccgtagc attcttttcg ttccaatcgt tcaccgtgga tcaactc 346

<210> 21997

<211> 402

<212> DNA

<213> Glycine max

<400> 21997

gctgctctaa ttacattgat gtttttatat atgggatgag attgtatgtc atttttgttt 60
taagaatagt atccactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120
ccccgaggaa gcttgccctca aagaggtcca agaaggacaa ggcacagaa ggaactagtt 180
ccgctccgga gtatgatagt caccgcttta ggagcgcggt acaccagcaa cgcttcgaaa 240
ccatcaaggg gtggtcgttt ctccgggagc gacgcgtcca gctcaggac gacgagtata 300
ctgatttcca ggaggaaata gggcgccggc ggtgggcacc actgggtact cccatggcca 360
agtttgatct agaaatagtc cttgagtttt atgccaatgc tt 402

<210> 21998

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21998

tgtagcaagc ttctcccca attttctata aataggggga gaagtgaagt agaaatgggt 60
tcagccctt tggcaattct ctctctttcg aatttgctta ggaaaattat ttccgtgaag 120
aaaatccaag ccgaggtgct tccgtaacct ttccgagatg tntccgtaag caaatccgtg 180
aaggttttcg tccgttcttt accgttcttc atctgttctt cgttcttcaa tgggtaagtt 240

ttcgaatccg agactttcaa ttcatttctt gtttttttaa gctttcatct ttatttcggt 300
cattttctat ttcttttctt tcatctgtaa cgcgctttta ccgtttattt aagccattnt 360
ctcacctaataaatgat 377

<210> 21999
<211> 410
<212> DNA
<213> Glycine max

<400> 21999

tgcctaatta acctgaaatt gagagaaaat gattattaaa cactcttaataaaaaatacta 60
agtatttatt acctatactt aacagaaaat acttataacc ttacaaaata accataaatt 120
gggagagttt gatacaattt atataagttt tatacacaaa agttagtcat tttcaccaac 180
taacagttgc ccaaattta cagttttgct tgtcctcaag caaaaagaga acaactcact 240
tgtcctcaag tgacaatgac atgcagtgat tatgtacgaa ggtgtatgct acaaagtgc 300
taattgcatg ataagagaat ggagtaaaat gccctcaaca cttgtcttta caacagttat 360
ctaaagacaa gaataaaatg taacctgaac agatagatga agttaggcat 410

<210> 22000
<211> 374
<212> DNA
<213> Glycine max

<400> 22000

agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct gtgatgtacc 60
taagcagggc agctcctggc agtcaacaga taaaaggaaa acaagaccac aaagcaagga 120
ggcttggtgt ggctggccag ctatgaattt tgtgtaatat gtggattgtg gcctctggta 180
atcgattacc aagggtgggt aatcgattac aaggcttaaa attgaggaca ggaggctaag 240
atggtctctg gtaatcgatt accaaggggt ggaatcgatt accaggcttg aaaacgaagt 300
caggaaactt agggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360
gaatgggtca ctgg 374

<210> 22001
<211> 414

<212> DNA
<213> Glycine max

<400> 22001

taatgcggat caagttgatt cgcaagtttt gtgcgtatca acttgatctg cagttggttag 60
ggttctctga ggctgaatgt ggatcaagtt gatctgagag attcatgggt tagcatatgg 120
atcaagtaca aggtatatga ttcacaggag tattttcgat gaagttcctt catgcggatc 180
aagttgatcc gcatgaatgt atttaaattt ttaaaaataa aaattagttt attatttatt 240
aaaatgctat taaattaagg tttagggtta attatgaggc tgccttgta tgtgcctaaa 300
aaggattata accacaagaa taattatttc cttggaaaag ataaatttta gtgacccta 360
tataacactc ctcccatgag ttagaatcag aaccacaaga tcgtgggctt atgt 414

<210> 22002
<211> 385
<212> DNA
<213> Glycine max

<400> 22002

gcttagagct aggtttgcc catgttaaatt tcttactatt cgcttggtct tgcctaagtg 60
attggctata tgttggcaca aattctggca aaaaattgac ttgttggtct ttactgtata 120
atgcctatgg cttttcctcc atgccaagat atcaccatgt gccatgtgac ggagctaggt 180
ttgtccatg ctaagtcatt gagaggttgt ccttcagtgg cgttattggc aagacatttc 240
acatttgatg taaaaaattg acaccttggt attggttgat tttgtccatg gcttggttcc 300
ccatgctgag atatcatcaa ccatgcca gtttagaagc ttggttttcc ctgtgccatg 360
gctttgactt gttcccatth tccgc 385

<210> 22003
<211> 777
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22003

gatgctactg cnananacct angatgancg tttangcann nttgacgnng atttcttgat 60
gnnaaccttt tgcannnana ncnannannn nnannaannn nnanannnt nancnacnag 120

ngcgacacna cgnanacatt tgtgttatgt atnacncgaa gntgtctatg ccacgcctgc 180
 acaacngag acgaaacnaa ctgccgatga cagacgcgcg cgncatatat tctacgacca 240
 gcanacacat taactanact tcnatcctct ctagcaatag aattagacga cattatatac 300
 tgcngtgcgt tgattcgatg tacatgcgaa tgtatatgta tcgtgtcgtc acgatcacta 360
 gectacgatc tgtacggtat cttctcctgt accaatcata tagcattgtg attgttactc 420
 gtaaggatca cgtatgctcc gtggncgcta tctgttctct acatctcatc accatgtgat 480
 ctactcatac gtgcacgtct acgtgcatcn ataagtgtag tacaatcgta ctcgccgctc 540
 gtatgtagnt agtatgtact aatctgagtg catctgactc tctaagtaat atggttgtag 600
 tcatgcatct catggttaaca taatatatga tactcggctc tcaactcgcgt tacttgctgt 660
 tatgatactg tgctgcatca taatgtatcg agtgactctg tcgcgtagan tatgtgttat 720
 ggacgtctct gttatcgta ctgctntatg tgaatacaag ntntatatat ctcgccg 777

<210> 22004
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 22004

agcttgcatt cctaattaaa tggatggtct caaacttttg aataatatta gaaaggtcca 60
 gttacttcat ttaattattt attgttcaaa caacttaatt ttagtgggta ataaaatttc 120
 tttaatgggc agataaaaga ctaatttcca cattttatta gtggataaat cagaatacta 180
 atgcaaaaact aaagaaagaa cataaattaa tagaaaaaga taaatccatt atacattttc 240
 aaatatttca atcattttca tcctttatca cacaacttca aacgtgtgcc tagttgaata 300
 tcactcaacc acttaacatg taacattcta attaaaattg tttttagaca acctttaccg 360
 tgggaaagta aagttttttt tc 382

<210> 22005
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22005

gagtgtggan cctgacacgt agctatgtcc gcgctctata caatactcaa gcttagaatt 60

atacaataac attttttggc caaccatgat gtccttctta attatcatgc tatcatggaa 120
 cttcttggtc ttttcttgtt agaacttggc attctcgtag gcttctaggc ggatctcatc 180
 taactcactc agttgcaact ttccttcttc accagcttga tccatagaga agttgcaggt 240
 cttcactgcc tagtatgctt tgtgctcaat ctccactgga agatgacatg cctttccaaa 300
 gacaaccgca taaggtgaca ttcctatggg tgctttgtag gcagtcctat gtgccc aaag 360
 agcatcatct agcctagtag tccaatcttt cctgcttggc tacacaatct tctctaaaat 420
 tctcttgatc tccctgtag aaatctctgc atgtccattg gtttgaggat ggtatgg 477

<210> 22006
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 22006
 agcttgaacc tacttagtac tttgaaagaa gacaaaatat gtgttttttt taaccctttt 60
 ttcgcttctc aagtattcaa tttattttgg ttgatatatg ttcattcaaa atagtcaaat 120
 actcatgttt acaaataagt tgtagtttc aatgatattg attttgattt tttcaagagg 180
 tctccgttca aatttcataa atgaaaaaaaa tatgattaaa aaaaaatttt cattaaaaat 240
 gatccgttaa gttcaaaaaa gtaattaaaa tttatgtgaa tgtataaaaa aaatattgta 300
 ccaaacaaaa actaatcatg gtcaaatagc ttgtaaattg taatatagcc aaattgatta 360
 tacattaggt ttctatcttc acaaaa 386

<210> 22007
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 22007
 ctaagcttat ctttttaata agtcatattt tctttatgaa tgtgcaaaaa atttaactta 60
 tgcttaaaaa atttaattat ttatcaactt tattggacct tatttggtat gtaaacactt 120
 gttgtttcat gattgttcta ccaaaaacat actccaatga ccatttctta ataagaatca 180
 atgtttaata agttttcacc atatgaacac cttgtttgag atgccattag acacaaataa 240
 ataattcgtc ccacatagct catctttaat aataaaaaaa gtctaatagcc gatatttatt 300

gttcagtga gtgatataat taagttagtt attttaatga ttaatatatt tcgataattc 360
aaagaattta ttgtcaatta accaagttaa taaccatcac tcccgtcatg ggaaaaaaaa 420
taaagt 426

<210> 22008
<211> 361
<212> DNA
<213> Glycine max

<400> 22008

agcttgcatt aggaattgcg tattccccac tccatcatta ggatcacttc ctgacatctc 60
aaacaaacca atcaaacgta tcaagaccga aatagtggct gatagaatac ctcacacaca 120
taagtgcatt acacaattat ggcttaacta taatgaaaca ctctagcctt tgaccactct 180
aattaccctt gagctcttac gcaattcaag agattatggc cacaacaaag aacaattcac 240
caacaagtggt aaggtaaggc tagacaagga aaagggtgaac caagaaaaag gctaacaatg 300
gttttacgca caaatgaagg aaataaaatt cagaatctaa cgacatcaag aaacaatcca 360
t 361

<210> 22009
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22009

gcgcatgaaa cctgatactt tgaattgacg ccttcgatag actacgtaag ctcgngagga 60
tngatgggga ctcggtgtat anaagaactt ctgttacggg ctttatggat tctcgaggc 120
accaactgga ggtgggcgac aggacgatcg cgggcttatg cgctcattag tggatgtggc 180
aaaacttgtc gacacccatt gatccaccgg caacgaatac tacaagatga tggggccccc 240
catgatccta caagctcgac atgacgaaaa cgtcgaaggg tgaaactcta ctgcttttat 300
cgttgaccac agtgtggatc cgggagagat gttgccgggg ccaagaaatc tttgggacat 360
catggggggg cgacactgcc ccaaactcat gtagtataat tctcaactca tcaactggcat 420
ataccgttcg tgacaacccg tgacgaccac catcggccag ctctggggct gctacaatta 480

<210> 22010
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22010

atcccaccnn nacatcccc cgccccccg atangtatat gatgaataaa aaaagagagg 60
 aagctgagct tgaacttgaa caccggaccg gaccacagaag accgagctca gcttgtgggt 120
 tcaccatcat gacgggcaaa cacacactac ttctctcata caataaacca gagaagggca 180
 taaaggagcg aacaaaaggc atgcatgcta atgataaagt gtaacaacca aaataacgct 240
 acaaattatg attacctact cagacgtatg cacaccatat accccaaggt ctattcaaca 300
 gtcaactata actttaactt aaggatacga gactaggaga catatacaag atccctttaa 360
 aatcagaaaa acaggtgaaa cg 382

<210> 22011
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 22011

ctaagctata agtgacagag tgactctcac ctagaatttt atttaacggt ttaggcactg 60
 gggagcgata tcaaacaatt tatctgttca gcctctgaaa aaagtggaac gttgtaattc 120
 atgttgaatt catttctaac tcatttgctc tggattgat tccacaatgt ggtattgttt 180
 acatataaaa taaactttgg aaaatgtttc gtcaaactca cgtatattca agtttgaaaa 240
 acttatatac ttatcttgat ggagtctggt ctacattctc gaatctagtg tcttgaatct 300
 tgatactgat tcatgggata tttgaaactt gtatcctg 338

<210> 22012
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 22012

accacgaac ctaacgaggc cgaatggcgc accgacatcg gaaaaggacc ccaggccgac 60

aagaacctcg accaaatcgg caccctctac ggaccaaga gccacgcaga aagcctccct 120
 gcgcacctcg ggatcaacaa gcactaccac gctgcctact ccgacgcgcc gcgggcctcc 180
 acgcactcaa agtaggagac aacggatcga cgcgaccacg gtcagcagcg gggacagagc 240
 aaccgcaacg acaaagcgga caacgacacc acgcggaacc cggcgaaaga ccacagagga 300
 cacaagaccg gactaacggc gtacggggcg accg 334

<210> 22013
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 22013

taagcttcta catgatggtt gtgaagagta aatattactt ttatctaatt aaagttcttg 60
 tcaaccattg cggtggtagt ttgtcttggt gaaactagac ctttgactga ggtcatcgtg 120
 gttcttaaag agtgagctga ccataggggt gcgttgggtt ttgtaagagt atgtaccaag 180
 gatggacctt gggttttcat accaaaggag gaccttgggt tttttatgta cctaatagact 240
 tgtattcctt catatataga agttaaggat tagaaatatt gtctaagggt taccttgctg 300
 accttgagtt cttgtgagcg aatcttacct aaatagtggg ctactaaagg cagaacttgg 360
 gtttaacgta tcttgtag 378

<210> 22014
 <211> 523
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22014

aaagatagcn nnacgagcca cccgcaccnc cccnncgccg gganggangg aaagagagng 60
 aanacacagc cagagtnagt ttgagcctgt gaagcatgga aatcaaggcg aaccgcgat 120
 ccccgagac ctcgagagca accagcattt tagccagcta ttaacatcgc gagaggacga 180
 agttgcgaat gcaagaaagc ggaggggacc tctcaaagga cataagcccg tgacatccgc 240
 gaagaactag gcctaataaa tgccaagccc atgggaccaa caatggagcc aagtgccaaag 300
 atatcgacag agaacgggga accaggctaa caccagaaa gaaaaaagaa cagaacgtga 360

ataagaacta actcacagta aaaatgaccg gaaaagccca tagaaggatc acagaatacg 420
 gaatcgaaca caacatgccg tatcaacgga aagcagacat gcccacacag aaagcaatag 480
 gaatataccc gaaagagaca cattaggaag aaacggacaa ccg 523

<210> 22015
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 22015

ttgcgaaagc ttttctccat cttttttact agtgccatgat gtctctaact agctattcat 60
 tcgtatcgtg acacatttgt ttggtgatcg taagccgttc ccactcaagt gcattcaact 120
 acaatcgctt ttctctattg aaaacactca agccttgtac cactctaatt actgatgagt 180
 actacaagtg agtccatag attctggcca catgtaaagt aacatctcac cacatatgct 240
 gaatgcgtaa tgcatagaga gactacggat tgccgftaac tcattaaaca aggctaacag 300
 atgtatttaa gcacaataga cggatgtata atatatatct taagatttca ggtctcattg 360
 cttactacca ccgataatta accttactga gat 393

<210> 22016
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22016

tttcttgcaa gttttntaga gtatcttacc acactcttta cttctgattc ttgcgatatt 60
 tgagttgagg aaacaatgct tagtgtccca gtcccactat atgtgtgggt tttatgtttt 120
 aattcgaact ttgtcttcaa atctttcaaa catttaaaaa attaagaatc aatatctact 180
 cagatttcta aatttaacaa tcctacttga gagaccattt gtttgtgaca atttggtttt 240
 tttttttttt aatctttttt tgatcttatt attctgcagt cagttgcaac tttcttcagt 300
 caagttatgg ctaataatgg tggaaacact gctggcccag gtacataata aacttcaatg 360
 aa 362

<210> 22017
 <211> 395

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22017

tccaggatnt gaagagggtca tctttgngct atgtcctgta tctctaaaca ggttggatga 60
tgctgcatga cttgtgaaga acgggattct caagcctcat gacttcagat tctttgttgg 120
atatgctgga tggcaactgg atcacctgag agatgagatt gagccagatt attggtatgt 180
agctgcatgt agctcatgtt tgcttatggg ggctttatca gattcttcat acagcttgag 240
ggacgagatt ttgcagctaa tgggtgggtca ttactcagaa ttgtgccgga tgccaaggca 300
tgacatgtag ctactcatgt atggcttcaa attcagagtc aaatgaatga acaacctgta 360
ttcacggtgc tacaaagtca acctgtctga tggtc 395

<210> 22018
<211> 565
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22018

atcacgcnnn nccatgcccc cccccacca anngtngaaa antaataaca ttgatgatca 60
naaccagcgc gatcagactt gatcctgtga tgccttgata accacaggcg aatccgagct 120
cagnaccggg agatcaccta gagacgacca gcctttatgc aagcttgcat gcacaacgca 180
cgcgagatg aagtccactc cacaacgctt gaagtacagg agaacttcta ccctataacg 240
caacatggcg gacaaaagag ggcagcaaac ttgaatggtc gtccatggcc atgcgaaagg 300
tatacgcgct acctatacat gttcacacat gattgcaact ttgtggttac attgagcata 360
gaaccaccta ccagcaatat agcaagctgg tggactacaa atcgagacac atactgtaca 420
agctatacgt cgcacaaaat ggtaggccct cttcaggcat acgaaacagg ctattcccat 480
cattctgatg acgacacgga caccttatac cctgaacca actcacaata tagtgcgaaa 540
atgccccccc ataataaac caggg 565

<210> 22019
<211> 352
<212> DNA
<213> Glycine max

<400> 22019

tacaagaaca ctatctaatac tttcctaataa aagatatcta tgtctatgct aaaaattcta 60
tctatgtaaa tcatcattac tgatacacat gtaattcaat cactcatgct tgatttccac 120
attaacacac taatcagaca caatcaaaaag tctatgatca aataaaatct atcaatcatt 180
aaccataaat attttcatca accatccaat ccttatgtat ccaaattcac taatatctaa 240
gaggcctaata tctcttataa aggtaaagaa tgtttctttg gggagatgat tcgtgaagat 300
atcatcaacc tgactctttg tatcaacaaa ttctagcatg cattctccct tc 352

<210> 22020

<211> 368

<212> DNA

<213> Glycine max

<400> 22020

agcttgtatt gtcgctcaga tcttgactag ttataacttt ctgaataaaa tgagtatttc 60
ctatgttttt actccaaaag ttagtgcgaa tcaaatcact cccacatttt atctctagca 120
tgcattcatt attctttacc tacacctcac gtttggttct ttaggaaata caccataact 180
aaacgcgccc caaggcatcc ctatcgacc agatccaaat ctataacgat gggatgatcaa 240
gaggagacac aggaacagat gatagccgac atgtcggtt tgaaagaaca tatggtttcc 300
atgatggatg ccatgttaag aatgagacaa ctcatggaga aaaatgtggc caccgctgtt 360
gctgttag 368

<210> 22021

<211> 406

<212> DNA

<213> Glycine max

<400> 22021

tttgtttatt tattaaatca tatattacat gaagttgttg ggtgcaaata agtctttcta 60
aattacaatt tctattattt tatatactta ataattgact gattatagta aaaaaaacia 120
taataattga ctcataatca tacctcccta gccggcttgt gtgcaatcaa caaaagctat 180
ctttcgtttt atagactcta taatctcttt ttgtctttga gactgactct atataatttc 240
ataattgcat attaggtatt aatatattta aagaggcttg ctagctagcg tacattcggt 300

tattttataa ttggaatagc ttagtaagtt ttaactaaat attatcttca aatatattca 360
 caatgtagct ggctaataata caccaattga acaacaagtt aatgta 406

<210> 22022
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 22022

agcttgctct atatttacat tgatgtttgt atttatggga ggaggttgta tgccattttt 60
 gttttaagag tagtgtccca ctggtaaaac taactttcca aatttttgcc ttgcgaggaa 120
 atggccccga ggaagcttgc ctcaaagagg tccaggaagg acaaggcagc cgaaggaact 180
 agttccgctc cggagtatga cagtcaccgc tttaggagcg ctgtacacca gcagcgcttc 240
 gaggccatca agggatggtc gtttctccgg gagcgacgcg tccagctcat ggacgacgag 300
 tatactgatt tccaggatga aatatggcgc cggcggtgga catcactggt tactcccatg 360
 gccaaagtttg at 372

<210> 22023
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22023

ntgaaaaaca ctttttattt tatatcactt ggccattctc tttgcttatt caattaggaa 60
 ttcccttctt aatattctag tgatcatctt gatgttgga cttgtaatct tgaagtattg 120
 tcttgaattt taatcttgaa aagcccattt gcatcaattg caacacatca tcatgatcat 180
 catcaaaaaca tcaaagccaa ttgcatctac acatgtgtcc tccaccttcg agattggagc 240
 tatgtttcac gattgcctaa gtgcggaccc tcaaggcaat ccgccattct tccttttttt 300
 atcggaacc catgaatggt attgcctagc gctattcatg tgccct 346

<210> 22024
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 22024

ctgatccttt gaaccttgaa ccctgaaatc cggcgattc agctcgacc cgggagcctc 60
acagtcttcc gcagctgccg gctttactat ggcgaaata tagtgtgcca ggaacatagg 120
ctttttgcca cttgtacatc gcttattcat gctcattaat cgaaaagaaa agaatatgaa 180
cttttgaaaa aatatagtag ttagatgatg cgtggtctat attcttcctt tctttctaag 240
agaaaactga tctaattacc acaaccgta tatagaaaag gctttgtcta tatcaagaat 300
acaataaaga gcttgaaagg tgagtttcta tctatatcgc tgctttttgg cgccatctcc 360
gatgtgctgt ggatctacct cctttaagga ccaaaacttt attttaataa acaggtgccg 420
aac 423

<210> 22025

<211> 408

<212> DNA

<213> Glycine max

<400> 22025

ctatgaaact ccgcttgatg cagatagttg tcgctgcgac ttatgcttct tatacaaaca 60
aagaacaagc tgatcaccga aattaatccc agtaacagat tgaatagacc gcataactga 120
ctcaacaagt gtgtttctcat tgcaatccaa ctcaaaagag tgtccattct cagcaatatg 180
aacaagcaac tggccctgat ggactatact tccagtcacg ctggaactca tcttattcac 240
caatcaatac atgaatcaca acctcttctt ccacccaaaa agggaaccaa tcaaatagca 300
aacatagagt tcaaaacaaa ccctaaccaa tagctgaaac acaaaacacc accaaagcaa 360
atccaacacc ctttttttca ccacacaata tattacttca ccccaaaa 408

<210> 22026

<211> 364

<212> DNA

<213> Glycine max

<400> 22026

agcttatcat ctacgttctt cttatcaagt agatagatca tttttaaggt ccaacgcctt 60
aaaatgatca cttttcaagt aaaaaagaat tgcttgattc actcttataa aagaactacg 120
tatgtttgat ttctcttcg atggagggtg cgtaagagca aaagccccgc ttttgtcgac 180

ctcaaataat aaaaaagaaa taaagttaaa ggtaacccaa ttttcacatt tctaaaaaat 240
 aggttgctgt cttttgagac aaacgtgaga ggtgctaata ccttcctcaa acgtaaatac 300
 aacttccgaa cttagaattt tcgtttcgac cggtttcctt cggtttttcc gacgttttcc 360
 acaa 364

<210> 22027
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 22027

tgtaggatta tgggggttccc gtcatatgtg gtactatgtg caagtcgact ctccacatcc 60
 acaaatccca cgtaaatacca ccattccccag ttgcccacct tcaactgagc tcacgtactc 120
 ccacgtagcc catatgctta ttctctcaa caccgggtcc ccattcaatcc ctccaagctt 180
 ccacatacat tcaagaaatt caacatccaa catcatgaac tatcaaaaac caagaaaaca 240
 gggcagagggc agaaaactct gcccaaaaaca caaaccaata ccacaacctt ccttactcaa 300
 ataccccaat aacattctct tcgttccaat ctaatcacgg ttggatcgac tcaaaaaatt 360
 tactggaggt ccctaatacat aaatctacat tttgaccatt gtgatct 407

<210> 22028
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22028

ggtaatctga cctgattgcn acctagaacn ctgngaccca ataattntntn ncnncctcg 60
 aggggacggc tctactgccg aagtttgaac gttaaccccg ggaacttgcc tttgtcgagc 120
 ccaaatactc atttgttggg ctgaggtaca tgtcatatct gcttagctct ttgaagactt 180
 attcattgac tgtcgctgtg tgaggtatgc cctgaaacat gaagaccatg ttattaaaat 240
 agaccacaat gtctcgcccc cttgacactt gcaatacagg tacaccaaaa catggtctgt 300
 cccaccgccc tccttatggc gcacgcatga acctccccat aatgtagcct ccccccggtg 360
 atcgttttcc tcctatttc caccgggcgc cggaacaaac gtcaagatac tccactaaca 420
 ccccgacgcc ggatcccctg acaacc 446

<210> 22029
 <211> 383
 <212> DNA
 <213> Glycine max

 <400> 22029

 ggaagagaaa ctgaggcctg aactgaaacc tcgaaaatca gtgacaccat agacactgaa 60
 gctgcgaaaa aacagagagg acatttagta gcgaattttg acgataaggc gcgaacggga 120
 tggaaaaaac cacaaaagtc aagccatagg gaagggcaag ccaaacgaaa gagaaagcaa 180
 acaacttgaa gaaacgggaa cagaaaagaa agcaactgtg accaggaaga caaacgaag 240
 ataggacaag aaaaagacag aggcctaata acggagagaa aacaccacgg aaaggaggag 300
 aaaacagaca gggaaccaga gaagtgcaca acaacaagg ggaccacaac aaggaaggaa 360
 aacaaacaca tggaaccaa tcg 383

<210> 22030
 <211> 439
 <212> DNA
 <213> Glycine max

 <400> 22030

 cgtagtgtct gatctctgac ctgaaaccta aatacaccga agaaacgttt tcacaatttc 60
 gcttgacggg cgactcctac atgtataaat aatcaccacc caatgccttc tcacagagcg 120
 ccggtcgaca ttatcccatg cgctgcagg agacggggct catcacttcg ttgagattcc 180
 gaagcttgaa acaaccggtt ccaccagtgg aacgtcgctc caaccctgac aatcatgtct 240
 aagcattgac tctctctcgc ccaatcatac acatatgcac acgtcattca taggctgtga 300
 ctaacaccat atagattgat ctaccagtcg cactgtatat catttcattg cgaaacgtct 360
 taaaaagtac atacttctgg tgaggtgcac aaccaatata tgtacgcgac agtcatcgct 420
 gtgacacgac gtgatgacc 439

<210> 22031
 <211> 384
 <212> DNA
 <213> Glycine max

 <400> 22031

agcttatggt tgagactgag catccctaga aatatattct attttctact actaaagtaa 60
 aaatgggttaa aataaattaa aatatgattg ttaaggtaaa aaaaaaaaaa aggatataac 120
 aaaaattatt aacaacaaaa actattgccc gcattagaag tgaactatat tttattttct 180
 accttcattgc acttttttca atctaagcaa ggattaaaaa aagggtttga caccatgatt 240
 tcggccacaa tatcaagggt tctggagtgt ccctaacaag agtggccaac gcattgggtca 300
 cacttgctctg caattttcta catatcacta ttacataatg tcctagtttc aatatattag 360
 agttaaccat gtttactaaa tatt 384

<210> 22032
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 22032

tgacggacta taccaagctc taggaaccag ggacgtagaa agatcttata taggcttact 60
 aagggttagag agaggaagac tacagatttg gatcacgtaa agtgtgttaa ggatgaagaa 120
 ggcaaagtct taatgcatga aaaagatatac aaggaaaggt ggaaggtgta tttccacaac 180
 ttattttaatg atggatatgg atatgactct agcagtctag acacaagaga agaggaccgg 240
 aactataagt attatcgctg gattcagaaa caggaagtaa aggaagcgtt gaaaagaatg 300
 agtaacggta atgcggtggg gccagactac atacctattg aagtgtggaa aactcttgga 360
 gatataagtc ttgagtggct caccaaactc tttaatgaaa ttatgatgtc aaaacgcatg 420
 c 421

<210> 22033
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 22033

agcttggtacc tatattacaa tgattgtaga taatgggtatt gtaataatgt tatccaaaac 60
 taacttttat tctggagaaa caaaaaattc ttaaagcaca aacactacaa cttgaatacc 120
 atccccatca cctattcatt atttaatttc catgctatct tttcccaatg cagggtgacac 180
 tatcattgtg aaggaaagac aagtagatca tggaaaagga attaagacag gaatatgtac 240

tctggaattt cctcagctgt tgttggtgca acaatagcag cactgatgtt ttgctaaat 300
 ttcacatgct ttttcttccc aaggtaactt cttggtgaca aaacattgag aaaaggacta 360
 gctgcatgag aaatgataag t 381

<210> 22034
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 22034

ctgaaattct tcaactggta tcgattacag gtttctggta atcggttaca tagttatatt 60
 ttgaagggtc atgacttttc aaattgaatt tcaggagttc cattactagt aatcgattac 120
 acatcaatgg taatcgatta caacttttaa attcaaattt caaaaccctt cttaaagctg 180
 attttcaaaa ttgtcttctg gtaatcgatt acactgccta gtaatcaatt accagagcct 240
 tggatgttgg aaacaaagtg ttttgaggaa aaagcttgat cgaccaatga gattgtttga 300
 ggccttatct ttttcttgat cttgaattaa tcttgaagca atgcttaacc tcaaaatgtt 360
 tgttgaagca accttgtttg attctacttt ggcacatca aaaccctata ttcataca 418

<210> 22035
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 22035

agcttgatcc ttgaatcttg attcttgatc cttgaaatta actttcctct tgaatcttga 60
 agtgttcttc aactttcctc ttgaatcttg aactcattct ttgattgacc ttgagcttt 120
 ttgtcatcac ctttgtcatc atcttctggt atcatcaaaa catctttgaa tcaactcttga 180
 ttcaccatga agctttgctt ctacaatggt gacacaaaca gataaagtca aacataaacc 240
 aaaacacaac aatactttta caaaaacaac agcctgaatc ataaaatctt taatcactct 300
 atgaaattgg aaacccttgt aaccaactgg caatcctact ttcttgcaa taaaatcaaa 360
 tcattacagg tatt 374

<210> 22036
 <211> 409

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22036

tgcatttgtg gngattggct tttattccct aatgtatgat cataaaagccc aggaacttgc 60
 ctttgtcgac cccaaaagtt ctttttttcg gttgaggcac atgtcgtatt tgcaaagctc 120
 tttgaagact tcttctaggt ctgccacgtg ttgagttatg ctctgaaact tgatgaccat 180
 gtcacgcaca tagacctcaa tgttttgtcc aatctactac ttgaaaatct ggtccatcaa 240
 tctatggtat gtagcacctg ctttttttag ggcaaagggc atgaccctat agcagaagtt 300
 ggcatcctca gtgatgaatg tcattttctc ctcatTTgga gcgtgcatcc ggagtagatg 360
 tctaggaagc ttagtacttc gaacctggac gtcgatcaa atagcttat 409

<210> 22037
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22037

agcttctccc ccaattntct ataaataggg ggagaagtga agtgaaaaag ggttgagccc 60
 cttangcact tctctctctt tcgaatttgc ttagaaaaat tgtttccgtg aagaaaattc 120
 aagccgaggg gcttccgtaa cgtttccgta acgtttccgt gagtgatttc gcgaagggtt 180
 tcgaccgttc ttcaacgttc ttcatcgtt cttcatcgtt cttcgggtctt caacgggtaa 240
 gtacctcgaa ccaagctttt cgattcattc tatgtaccgg tgggtgtcca cattgtgttt 300
 cgtgcattat tcttctcgtt atcatttact ttccgtaccc cttttgacgt gcttaagcca 360
 ttttatttaa gt 372

<210> 22038
 <211> 415
 <212> DNA
 <213> Glycine max
 <400> 22038

ctaagcttct agataacata gtgcatagtc tgtttgtgca tttatctgtt agtggattta 60
 gttggtttga caaatctac ttaatgtcat gtttatattg taaatggagt ttagaaacga 120

tgaatgaaga tcaacagaac ttgaagaaaa tggctaacat aataatgaag attaacaaaa 180
aagcagagga aatgttcaac actgtttata ttatggatta ggtagaaat ttcaggactg 240
ttctaaaata aacatgacat gatataacac atttacttat attattttgc ttgttaaata 300
tagccttatg gtgaactcag taggtcattt gcttatatta caaccaagat ttggtgagcc 360
cagctttact agttggatgg atagaactca aagattttcta tgggatcacc ggaaa 415

<210> 22039
<211> 352
<212> DNA
<213> Glycine max

<400> 22039

cacataagtc gcggccggga cggggagaac aaaaccatag ccggcactga tgaatggcga 60
gaagcccaaa tgcaggtacg cggaaaccaa gtttgtccct tcgctatcca agcgactccg 120
accactagc cgataatcaa ccaaagtccg tcgcagccaa cagacatgcg tggaggccca 180
gccacgaaat aacgcgaagg gcgggatcat acccacaagc ctctatccgc cgccatcgac 240
tgaacatatc agaaggcccc aataccgaca acaacgaggc tggactcctc atacatcaac 300
caataacaga agcctatcct ccctaaggac caagagggcg gaaagaaacc cc 352

<210> 22040
<211> 412
<212> DNA
<213> Glycine max

<400> 22040

taactaaatt gtttccattg actttatgag aatgtctctc tgaacaaact aagtagtgag 60
accacattgg ccctagtgtt ggtagattcc accccaaaat tttaatcact aaaaacaaat 120
tgcattgagtt gaagtctaac tatccgaagc caatgatgtc gtgtacctta tggcgtcggg 180
agcgatacac aacttttggc cataagtctt gactattgtt cgttcaagca ttacacgtgc 240
cgttacgata aaaaaataaa tagcaatgat gtcaataact ctatctaaac tagattccag 300
ttgtgacaaa accaagattt cagtttaatg gagaaaaata gttattgtat gaaaatatga 360
atctcgatat ggctcaacaa atatatcata cgttgttatt tgaatcaatg aa 412

<210> 22041
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 22041

agcttgtaga ttttataggt gggcgaatcc ctagataggt tatggtcttt gcaagcctaa 60
 ccaaggtaag ccattattca cacttatcca tttttataa aattgcactt tcttcgcaag 120
 attaatttga gactcccca atggtcaaag aagtgacat gttaaggaat gtacttgggt 180
 atgtaattgg gttaatagct caaaaagtga aatccccttg agtaaagtgt caacatggca 240
 tatcatgata cttagatatg tgcactcaca tttatgacta gagaataatg tggttacttga 300
 tgagtttgtg ttagtacatt gatattgaaa gtgtgaattt tatatatata tatatacata 360
 tatatatata t 371

<210> 22042
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 22042

tactcagcta ctccgcaa at ggtggcctct agggaaatgaa gctgttattc tttcttctga 60
 ggacccatgg acactaatcc ctgacccaac aaaaattcgt gcaaagggtg gcccaaatcc 120
 accaggggta tggatggaat aaaatggctt ggaacatctg agcaccgcca aaaatgtggt 180
 tgatgtggag caaaatgggt ataaggcgtt gatgccaca gcgatttgag cgcgggagtt 240
 gttcatttaa ttgatttatg tatgctacac gagtgacttg tattgggtta agctgtcttg 300
 aatgtatata ctttgtgggc ttcaatgaaa tcgctagtta gaaatattac ttatttttgt 360
 ttgtgcagtt tagttattct cttaacatt acttattttg gaatgtact 409

<210> 22043
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 22043

tttcttgcaa gcttgtctac tactgaccga catgcgtcaa gcaaggctga tcagcactgc 60
 taattcctac ttcaccctca aacatactct ctgaggtgaag ctgggttaagc tattcttctc 120

ttgagcttgt gttctttatg caccttagct actgcttgc cccatgagtc tgctgtgtga 180
 accgctccct tatcactcac cttctcatta ttttagttac aatcacacca acagatcata 240
 tatcatgcaa caaataccac ttccagacta agataaaaga actaatagag agatcttcta 300
 tgatgccata 310

<210> 22044
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 22044

tttgtgttat tctaggatgt gttgtccggt gaaaatttgg taattttagg aaagtcaaac 60
 caaaaaaaaa aactataaat gatatgaaag acatcaaaga aaagtcgcaa cagaaagctg 120
 agagtgtctga aaagtagaag aacgcaaata aacttgtctc tgatgattga taaaatgcct 180
 tacaatttgt tgatacataa gtttaaatta aaagataatt cccatttagg ccttgaaaca 240
 aagataccaa acctgcacga ttttttaca ccaaagaaca tatgaacaag cgtctcagca 300
 ccatttttga catgctctac attaaattat taaaaaatg acattaaaat ttttaataata 360
 aacaatatta aaattatatt aaaaaaatat aaataatact cattaaatta aaa 413

<210> 22045
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 22045

agctttcttt tatcagagaa gaggtattc tcttggtcca agcccttgga gcttgcttta 60
 agccatacaa tgccttaagc aattagaaca ctctatcttc cttgccttag atctccaaac 120
 tacgaggttg ttcaacaaac cacctcgggt gccaaaggtag cacttcaggt aaagctgaca 180
 ttacatttaa tctgggtata aagaccaatc tctattatgg gcttgcgcaa ttaccaacct 240
 tatgggttca agcctagcta ctggaccata acttcagaat gatccaaacc agatttttgg 300
 aggacatcct ttgcaactaa ccttgct 327

<210> 22046
 <211> 406

<212> DNA
 <213> Glycine max
 <400> 22046
 tgtaaagcat tgatttgata ctgcttcttt catcatgtgg ctcatgatgt ttacaattta 60
 atgataccttt gctaccctgc aatgagacac acacagatac acaatcacac acacatagag 120
 acaaactcac gcagacacaa acacaatcac acattcacac ataatgatac acacacacac 180
 actcacatac agagtctcgc acacataaag acacagacta agacgcaaac aactgtgccc 240
 acaaacacac agagagaccc acacacaaag acacacacac tgagtcatat acacacacat 300
 acacaaacac actcacacac atggacagac acacacacac ttattgagac aaacactcac 360
 acactacata gatatagaga caacttctta cactcacacc cacaca 406

<210> 22047
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22047
 atttctaggc tcctctactt tgcactatat gacatactgt tggtttaagg ccaagcattt 60
 ntttttcaca agctgctccc ttaagatgt taatgttgct gagaattgat tgccccctta 120
 ttaagtcatt tcactacgga ttattctgac ttctgggcat ctaattgtaa gaatggagtc 180
 atggagaaaa tgctatcaac gtgttggtgt atgggttaat ctttgacggg agcattcatg 240
 tgtttaacct attgagtatc ttatctcctt atttagcaga tcaaaattga gactttaaaa 300
 cttttatgtg tgggatgctt ttagttaata attactttgg acattcgaat atgttgccgt 360
 g 361

<210> 22048
 <211> 312
 <212> DNA
 <213> Glycine max
 <400> 22048
 agcaacgttt attctcagca ttatttaatt ttttgcttcg gaatggaggc ttccattcaa 60
 actagtatta ctgatcttaa tgcttgaatt tactttgcag attctacttc gattatagta 120

caacctttgt gggagcacga aagatttget tccatcctgt gaactgttct ttgctccttg 180
 tgactgtgct cctttatggg gttatgtatc cgctcattga tcggcttaaa ggaaactggt 240
 ctccagacca ctttgaataa acttacttga tgggcttata cggatataag gtatttggtt 300
 caattgctct aa 312

<210> 22049
 <211> 777
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22049

gacgggggan nangctggat acnctcgtac tngcanancn ttngtaancn actttganaa 60
 caacnanagt atannaanaa ngaataactt atcacgagag tangcgggca cgatttcgtn 120
 tcacagnata tttctncgcy ctcttactcg cagggcgnga tatcacacag tgtatagcat 180
 agatcgacct atcttactcg acattaatat acgtacagat aaaaatgtat ccggagggtgc 240
 ntacccgcgt cagatcgctg atcttacgta acacgctggt gaaaatgcac ctgactatac 300
 ggtanctgat cgcaagtgtt gacacaggcg aacagcaacg ttacaaaata ccangagtca 360
 tcgtctcgag gtatacatgg agcgacgtac gtacngtcga ggactacgga accgcatagg 420
 agttctaccg tacacgcaca cagtgtgcgg atccagggtct catcgacgaa gtagatcgtg 480
 tcgactacga gagagtggac acggtctcgc gcgagatata caacgtggag gtacaagtna 540
 cagatgagag cagatagaga taatgacgat atagagaaag ngatagcgcy atgatgagtc 600
 gcggtatgac gagatcgnta ggtatcgctg ctacacatata aacncgntat atgcgagtac 660
 gcatgtcgat gatcgntant atggacgaga tactgtgctc atngttcant atacgatata 720
 ctatactatg tatgnangta tactatgaga ctgagcggtca tgcactatgt cgcgcg 777

<210> 22050
 <211> 693
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22050

actacctgan naaactgatg ccgtcgaatt tgacnnaatt tagnaaatnc cnagnngaca 60

ctaataatata tacataagct gtctctatcc aaggacttag tcttgattgt tgaagacgat 120
 atttttgcat ggctctacag ccctaataagg gatgggagcg ctatctgtac acacactctc 180
 tatgtttcat tatagatctc ttactcgctt aggaaatcat cgacacgagg gtgcgtataa 240
 tcgctctcac cactatctaa gaggacatct ctatatctga tacatcttcg atacacgaat 300
 tcacatcgca tctcacgaat anacatacat ctctcgagcg gaggcgctta gaactataca 360
 atngatataa taacgtactn ccgtcatcta tataactcgat ctcacgctac attggactat 420
 gactgcacgc tcccggacta ctcaataagt gatatatcgg tttgtgagag tggtaacta 480
 ctgngctggc ctcactccat agttaccctg cgtgtctcca ttagctctat atactgtcac 540
 gactcataca ccaataaacg tggacaataa catacataag gacgacgcgc accgaaccat 600
 gtgttctgaa cagaacaata cgatcgacac aaccgcagtc agagcgtacg acacctaata 660
 taaggcctga actggttctg gtaccacgct tcg 693

<210> 22051
 <211> 960
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22051

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 actacatgat ctcttatcat tataattata tcacgtgaca cataattaac agttgtgcag 180
 tgaagatagc atgttgcagc gattagtgtg tctgagactc ctctggagcg taatgcgata 240
 gggatangaa gaactgtggt cacctactct acatgcgcag tcacacttgg ntatagatat 300
 tgtgtgtata catgatgtgc gtaggacatg agcagctcga tcattataac gtatatcgat 360
 gacgaccng cagcgtgat antgacgagc gcatgacgga tacactgtcg tgcacatcga 420
 gngcctntga tacgtgcata ttncacgca atcaagtcga ctgctggtat gncanactca 480
 ntggactang agattgcgtc gtaatcatcg antgentaac gtcgtcntgc tagntgcact 540
 agttcgcgta attacgacgc tgactcgtac tcagtttgta cgatgcgtnt ganctactta 600
 canatnacga gcagtattct gaactantgc agctantgac tgacngtaat caatcgataa 660
 tcgancgagt tctaagtgt nnggtaccng acgtctgcta gtcgacngtc ggtcaggctg 720

atcgctgaaa gtacgcagta cntantcgaa tatacgatga ggccatggcg aacaccatng 780
 ntcgaganta agtcccccggt cgtagtactg atcgctctgac aatctgacca tcaactgcgac 840
 tgcgagtgca attgttcatt gtggtcgtac ggcgtgancg agtagcatgt cgacgacgac 900
 cctgacngca gcactagntc gtntattacg cagcnatcac taaccaccag tcgctccacg 960

<210> 22052
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 22052

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 tgcacaagag acatgagcag catctcttct tcttcataaa tctcagcata gtttgcactc 180
 tccttccatc ttgggcattc gtattggaag tgtcctagtt tgtggcactt aaagcactcc 240
 actgtggctt tgtttggaaga ctgccttccct ctgcctctgc ctcgaccccg accaaagcct 300
 ctacctctgc ctctacctcc attctgttct tcatgtgaga ctttcaatgc ttgctcatcc 360
 cttgtgtcac taccatgaga a 381

<210> 22053
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 22053

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 cgcaaaaatg aagagtcaag cgagggagaa atgaacagtc aaggataagg ccaaatttaa 120
 aattaaata cacacacaca aaaacaacaa cattttcata taaaaaattg gcgccgattt 180
 gtgttccact aggacattct aaggcggttt caagaaactg tcttagaatg tgtgtcataa 240
 aaaaataatt attcttaatt acagaactgc caccgcataa cattctaagg cggttatgta 300
 taatcgtctt agaatgcgcy tcgtaaaaaa atgatttttt agtagcgggg tttgcaagtt 360
 ttgtatcggg tatgttcttt gtgcttcttt gttttcagtt gatgatgtgg gatataaagt 420
 ctct 424

<210> 22054
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22054

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 taattatgac cttttaagca ataaatacaa tccaagttgg aggaatcatc taaatctgag 120
 atggacaagt cctccacaac aacaacaacc tatccctcct tttcagaatg ctgctggtcc 180
 aagcaagcca tatgttcctc ctccaatata gcagcagcaa caatagcagc cacaataaag 240
 acaacaagca gctgaggctc ctctcaacc ttccttagaa gagttagtga ggcaaatgac 300
 catccagaat atgcaatttc agcaagacac aagagcctcc attcagagtc tgacaaatta 360
 gatggngcag atggctactc agttg 385

<210> 22055
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22055

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 tctgggggggt tttgttgat aacatatttc gttggctatg tttcatgatg tattttgggc 120
 cataacttgat gtacattgta tactgggttaa atgttgga tgctgaatga tatgctattt 180
 ctcaaagct acagttcaaa aaaaaattag ttgaatcaat tcgaaaaaaa aagaaaaaga 240
 aaagaaataa agttgagtga ataagatctt aaatggaaaa agaagatga gactcttggc 300
 tntactctnt gcgtttaaat tttatcttta ggtttcttta tttttctta atatgcactt 360
 attccccatt actcctctat tcctttggga tttagctatt tattccatat ttttcc 416

<210> 22056
 <211> 377
 <212> DNA
 <213> Glycine max

 <400> 22056

tttatgcaag cttctgcgta gaattgaatt ggaaggagag gggagaatgt ggaattggaa 60
 cttacatggg acgaaggcga ttatgagaga gacgacgact gcgtcggcaa tagagaagat 120
 cacgggctaa ggggtgctttg ggggttttcca gcaaggatgat tctccctctt gatctcggag 180
 gaggtgctga ctgcgtcacc gattcacagg gcatcggttc tctgcttata agttgtctgc 240
 ctccgggttc cattatgtcg tccacgaaca cgatcaattc acattctcac ttggattgct 300
 tgggttaaac atcaatctcc tctgtcactt tcacattaat tattgttctg ggctcgatcc 360
 cctgtgccac ctgaatt 377

<210> 22057
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 22057
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 atttaaggaa gatcccaaaa cttgcattac ttctacctaa aagtaataat gggttcccgc 120
 caaacacact acataagctg aaatagcact tttatgatcc tagcaatata tatggaggta 180
 gacaaacat atagtccca actagagtga tgccttcaat ttaccccagt ttaattttaa 240
 cttttaagtg ccatacaatg tttccttggtg tgccctgttg agtctaagaa taaaatttgc 300
 attgattaca tctttaaagg tctgtgtact gattcttctt ctcaacccat gttttttatg 360
 caatatggca tggaattatt tttgaattgc tgtttctcaa ttgttttat 409

<210> 22058
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 22058
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 tctcctgccc atagatagta aggatcgagc cttgggcaaa tgggtcccaa attgggaagg 120
 accgtataaa ataattcaga tctattcgaa tgggtgcttat gagtttagagg agctaacccc 180
 tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240
 cgaagttaaa ataagcatag aataagagaa atacgggaaa cataaaaatg gcgataacag 300

taaattgccg cgaaggga tgtgtcaata ttacatcgaa aagtagaatc gaaatacaga 360
attcgaaata aag 373

<210> 22059
<211> 407
<212> DNA
<213> Glycine max

<400> 22059

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gtggcgccctc ctctcacctc ttctcatttg tcttccgctg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagcctc catagaatcc ccacaagcaa 180
gcttccatca aaactatcat ataaatttta gtcattgatg tcaccaagaa ttaaaggatt 240
ggttgggatg tcaagcggtt caatcatgta ctgggttcaca tacgtaaattg cagaatccac 300
aaaactgcaa gaacaacaaa gtgagcaatg aacatggttt gaaatcaaatt tttgacaaaa 360
gtatcagagg tacaacatta ataatggcag aactgggtact gggtttgc 407

<210> 22060
<211> 370
<212> DNA
<213> Glycine max

<400> 22060

gcaagcttac tatacataac aattaagatt tattatcaaa taatagtgtg aaaataattt 60
atactatcta tatatgtata aactatttgc tcttaaaatt taaaacaaaa gaaggaagat 120
taaactcttg tgagagcaca ggaaataaaa gtatataact gagtcaaaga ttaacaataa 180
atgctaagta cacatttgat ctttaacaca ctttttttaa tatctactgg attttttgtt 240
attaaaagtt agtaattttt tttaaaacat tgtgaatttc acatcatatt taactaatc 300
ttcttgattt tataattttg aacgaatttt aataaatgag agtatgtgtc aaataattaa 360
tcaattaaac 370

<210> 22061
<211> 393
<212> DNA
<213> Glycine max

<400> 22061

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tttgtatgac gatttctggg ctatgaagct tgttggttaa aaattgcggg ccatgaagtg 120

aagttcattt gtcctatttt tgtgacctg gaagttttaa gcataactat gactcaaata 180

tcattttctt catctgtgaa tctctatcct ttttttcccc ttttctcatg ggagggttagc 240

tctgcttctg aattgcgtgc tttgagtatg gcatctgtgc tactaaagtg aaaggggatt 300

tcatggattt tgtcatacta tctttgtact ttgggtgtgt atatttcttc acggcaagaa 360

gataatattg ctgagtacta tcagcagcag gtg 393

<210> 22062

<211> 360

<212> DNA

<213> Glycine max

<400> 22062

caatctagga tatgagaagc gtagctgaca ctcaatctct ggaacgttat aaccagaata 60

tagaaaccat atctctgtac gtagaccaga taatcccaac aaaagaaccg agatcaagat 120

caataaagca tataagaatg aaaaaagtac cgaagcctcc aaaagtatag ggcaaacaaa 180

ataaacaagt tcttattcgt ggataatcta acacaagcca tgggcgtcga taaagaggac 240

actaaaactg tcggcgcagg aaaccatacc gataccaaat accgatgcgc taagctccag 300

aatgtagcca ttaaacaagc atttaggagt aatgagatca aggggaaata aaagataacc 360

<210> 22063

<211> 396

<212> DNA

<213> Glycine max

<400> 22063

tgagatgttc acatatccct ttcattgatct ttgcctcgga gatgattttt ccttggtttg 60

ggttgtttat tctacatctg cttttctcac ggaaaccttt tgggaagttt atattcttta 120

acttggttgt tgaaatttat taggacctac caaattttga gtaccacccc atgtttatta 180

atagtgttta ggaattggtt ttagaaggga agggagagta aaattttcat ttcaaataaa 240

tatgttctaa attgattttt ctataataaa agtaataaaa tgacaaattg acaaaaatta 300

atgtcttaac cttttatttc tataaattgg aattctctta atgtaaaaat taaaattggt 360
 ttttgtttaa aaaaacatga atttcacact ttaaca 396

<210> 22064
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22064

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 atttaattat ctttgggctt gtcgaccacg atcaacaaag tactttcgac agctactata 120
 tgttgatttc accaacgctg ttatcggtat gctgcgacaa tccttcaata ccttatttac 180
 acattcggac aagttgggtg tcatgtggtc atatctacgt ccttctttat cataagtcac 240
 agtccatttt tcctttgaaa tgcgatcaat ccatgttgct actggactca atggacgaaa 300
 tttttctaaa ttttcatcaa atatatgctt gcaaggagtg gagcctgcat aaaa 354

<210> 22065
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 22065

ctaagcttat acaaccaata ttctttgtcc taccatgcga ctgttgactc taacacaaat 60
 caacacttag tcttttctta aaatgaatac tacggataac attaaataat gatttttagat 120
 tttcaaggat tacaaatatt tatagggtact aaaattaaac ttacttcatt ttacaagggc 180
 tataaatagt gattttcaaaa tttaaattga tgaaaaataa ataaatattt tttaaaggac 240
 caaaataaaa aaaactcaaa agtcactcat ttataataa ctaaatacat atttaatcca 300
 ataatttata ctaatattca cattacacat gtatgaataa tttcaatggg tgtaatggaa 360
 aaacaatctt aaccgcatgc aggaaccaag ctcttttatt tcttattttt tatac 415

<210> 22066
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 22066

cggagaagta actttgtgat cagtatcatc tctccattat gttatgaacc atatgtggaa 60
ccggaacagg actaggtgat ctatctctct tcctagcaga cctcaagttg ttctttaacg 120
gaataggggg aagtgaactt agccttctta ccgtgctaca agcttgacca ttttctccat 180
tttggtgttg atcatttcta ctcaacaaca ggtcctcatc gaattcaaaa tcaattgcat 240
tgaaatcaga cccaacgtg agaagtttgt ttttattagc caggacttga tactcaagag 300

<210> 22067

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22067

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tggacgcccc ttcttaggag cgttgtcgat tccaggcgcc atgatgggtat ttgaaccctg 120
ataaccctcg aagactagga aaatgggtcaa aggggtgcacc ctcggatcga attatcccg 180
gagccgagct taagaccata cgagcctgta taacagcttg gaaacaggtt actggggagc 240
agatgagagt acaaccccag gggggcccaa ttatagatga aaaggattca cggaccatga 300
tcagagtaag acttcatctt catgttcacg gagttctatg ctccatttaa ctggctcttc 360
ttagagcgct ctaaagttat tcaaactctc tcg 393

<210> 22068

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22068

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acatacattt tttcttttaa aaaaatttag atgcaggtat gcattgtgtt aaataaaaatt 120
gatattttaa tgtaaagaaa tataaaattt atccacttgt gaccaactta agtatgggtg 180
ttcgcgggtc gggtctggct gggttttagtc aaattcgga tccaacccaa tcaaatttag 240
tcggtttggg ttggttttca taattttttt taaacccaac ccaacctaac ccattcatga 300

atggttttggc tcgatttata ccaatggatt acccatttaa atttgatctt tttcttaana 360
ctactattgt atatcatgat tct 383

<210> 22069
<211> 425
<212> DNA
<213> Glycine max

<400> 22069

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tggtagcaac attgtgataa gcaatattct tggagtaata ttatgcttct attcttacca 120
tagttgttta ctttcaaaac cagattgagt tatatgaatg agggctctta tcacatgtct 180
aaggattttc tagcaaagtc ataattatat taagtagtgt atgaataaaa cccttatgag 240
cataattgga atatatatat atatatatat atatatatat atatttctaa ctctccgaga 300
ggaaggtttc tttcatcatg ttctgaacct tgatatcaag tgaatatatt ttgcgatagt 360
ctgttgacct tttcttcatt gtctaattat ttaaacaatc tatgtgttcg ttcaatcaat 420
tcaaa 425

<210> 22070
<211> 376
<212> DNA
<213> Glycine max

<400> 22070

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atgctcacct cccctctaa aatttaattg tattgggctt ctccaattc aattaaattt 120
agttcccaac acccacatca aatattcact taattcatgt gaaattacaa aactaccct 180
aatacaaaaa ctagtctagg tgccttaaaa tacaatggct gaaaaatcgg gctcatactt 240
agcccatggg cccaaaatct accctaaggc tcatgagaac cctagggcct tctcttgcac 300
ctttggccca atcttcttgg agtcttctat ccaatgccct taggggtagg attgcatcat 360
tccctcccc ttgaaa 376

<210> 22071
<211> 399
<212> DNA

<213> Glycine max

<400> 22071

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gattgctaag gaagattatc accgatgatg ccaccaatct gaacaacagg atgatgaaag 120
aaatgtgtga ggatttcaag acccaacacc acagttctat gccttacagg cccaagatga 180
atggggcagt tgaggctgct aataagaata tcaagaagat agttcataag atgtctatgt 240
catacaagga ccggcacgag atgctaacct ttgagtcgca tggttatcga acttcagtgt 300
gctcattgac tggggcaacc cttttctctt tagtgtacgg gatggaggct atgctcctgt 360
ttgaggtaga ggatccttct ttgagaatgc tagccgaat 399

<210> 22072

<211> 383

<212> DNA

<213> Glycine max

<400> 22072

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ttcctatgtc gaagagttgt tcttcaaaag aactcccaca agaacaaaca agacgttctc 120
cacggtggaa gatccttact ttcataataa ccttaaagaa cttttattgt agatccaaat 180
tgatgaagat gaaaaaata atatattata gcaactcaaa atcaagaggc accatctcaa 240
agcatctaaa tcaaagaaaa actcaaaaaa tacaatagat tgtgcatact accaactttt 300
atgattgaaa aaaattacca gatcagcgaa cgaggagaag aaaatcagca aaagagactt 360
catttaacta aatagtcaat taa 383

<210> 22073

<211> 429

<212> DNA

<213> Glycine max

<400> 22073

taagcttgct gctgttgatg aagattgtcg caccaccgca cataggtttg tgacttgctg 60
gctgccgtcg cacttggggc ccatttcttg gtgagtttcc ttaccctgac gtgggtgtgca 120
taaagcaact aaaggctctt tgtagggtt caatcaatca acctaatttt attctaacag 180

acaatcatca atcctaacca catgttttct atccatgtag agaaaaatta ttgcataaag 240
atgaataaaa ccctattgtg tttccatact caaaatcatg catacctgga ttagccataa 300
tggaattatg aaaggttgat gaggatcaag attgggtttta tgatcttcta aatgtagaga 360
gtcctttttt ttctcttaat ctttcttttc tgataggcat aaaaagaaaa caagagcgaa 420
attgtacgt 429

<210> 22074
<211> 384
<212> DNA
<213> Glycine max
<400> 22074

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aaaaagccca agagaatgat ttcaagattg agtcaactag tttcaagaat caagagaagt 120
ttgatttcaa gattcaagag aagatgaatt caagattcaa gagaagaaat caagaagact 180
tcactagggga agtattgaaa agatttttca aaaaacaaac atagcacagt tttgtttttc 240
aaaagagttt ttctcaaaat tttctaagtt accagagttt ttactctttg gtaatcgatt 300
actagtttcc tgtaattgat taccaatggc aaagtttgat ttcaaaagtt ttcaactgaa 360
tttgtaacgt ttcaattgat ttca 384

<210> 22075
<211> 428
<212> DNA
<213> Glycine max
<400> 22075

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atacttcttt ggccaaacag gaactccaat atttttacag cttctaattgt tatgattgggt 120
ttggccacac cttccacatg taaactcagc caatttcctc tttagcttgt cctgtgacat 180
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gtgggtggaac aggggtgtgta tactgtgtct gggcccaata ttgtggctct tggactgggt 300
caataaaatg ctggcatgtc ttattataag cttctattga cagccactca tgacacatgt 360
tctcaggctt cctccttttg agagttattg ttgcaatggc atgtccgcat gacatcccta 420

<210> 22076
<211> 356
<212> DNA
<213> Glycine max

<400> 22076

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tcctttctcca tttgccaaaa agaattcgcc aaggactaac cgcctgaatt ctttttgtgt 120
ctctcttctc cctttttccaa aagagcaaag gactaaccgc ctgaattctt ttgtttctcc 180
cttctcccta gtcaaaaatt caataagaca cactctgaga attcttttga ttcttctctt 240
tctcatatac aaaagatttc aaaggactaa ccgcttgaga attcttttgt atcctcattc 300
acaaagattc aaaggggttaa ccgcctgaga actctgtctt aacacattgg aggatg 356

<210> 22077
<211> 405
<212> DNA
<213> Glycine max

<400> 22077

tcacgaccaa tcggttttcg attccttcac catctgttcc cctggcggtg ttaactacaa 60
cgagttcccc accattacca gcatttccca agttttcggt caaatgccta gctgttgaag 120
aattgacaaa ccgtagggac agaggcatgt gttaccactg caacgagaaa tgggtcactg 180
gccaccaatg taagccccga ttacacttgt ttatcgcata tgacaagtca gagctatcat 240
tgtctccctc agcaacagac tctcgatca acttgccgga acctttggtc gttgactccc 300
ctcaccgag cctcaacgta atgtcgggca tgcttccca actacttttt gcatttatgg 360
gattctaagt catcaccaag ctacaatact ggtggatggt gggag 405

<210> 22078
<211> 305
<212> DNA
<213> Glycine max

<400> 22078

tttatgcaag cttttatgat tatggagtac ccatcacata tggtagtagg gggcggacgg 60

gcgatggtgc acaacaagtt ttccacatcc acaatgcgcg tatagacca ccatcccctg 120
 ttgcccacct ccattctgagc ttacgtactc ccacgtagcc catatcctcg tttatctcaa 180
 caccgggtcc ccattcaatcc tgccaaactt ccacaacatc caagcaaac aacatttcaa 240
 cagcacaagc tatcacagcc aagcaaaaaca gggcaaaggc agaaaactct gctcaacaca 300
 ccaac 305

<210> 22079
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22079

tttgtagggtg aaattagggtg ctttcatttc ccttattgtc ctctcacggn gtggagggtg 60
 tgccatgttc tcagaatgtg caaaatcaaa tgctcaaat tataatgttc caaatcagga 120
 tgttcaaaat caccaataac agaatgcaca gattcaccag taatggaatg ctcaggatga 180
 tcaaaaggta taaaatgatg cctaactaat ctatgaaatg tcctatctat ctcagggtca 240
 aagggttgta agtcaatgga ttgcctctag tcatacatta cattcagcat gcacaactag 300
 ttgccttgctc atgtaaataa aggtgtaggt ttgaactaca tctaccctca aatgatatcc 360
 aaatgtcttg aaattttgtg agctacctta taaaatgatg agaagatagc aca 413

<210> 22080
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22080

agcttaacaa aatgcatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60
 aacataaaaa gggaaaagggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattggctc ttaaattgtt gaaaagcatg tatgaaaatg 180
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300
 atttgcttgt ttgtgaagca catgaaggag gtttaatggn gcattttggg gtccaaaaga 360

<210> 22081
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 22081

actaagcttg cgattggtct cgcgtgaaga tcaagttttc ttttagaggc caatttaatc 60
 atcctgctta gacgaatgaa aaaactgggg caaataaaaa aggtgaggat gagggaaaaa 120
 cccatgatgt gactgccatt cctatacggg caagtttccc accaaacca acaatgtcat 180
 tactcagtca ataacaaacc accttcttac ccaccacca gttatccaca aaggccatcc 240
 ctaaatacaac cacaaagcct gtctaccgca cttccaatga cgaagaccac ctttagcaca 300
 aacaaaaaaa aacaccaacc aagaaatgaa ttttgcagcg aaaagcctgt aggattcacc 360
 ccaaattccg gtgtcatatg ctaacttgct cccatatcta cttgat 406

<210> 22082
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 22082

aagctttctca agcattccac tcattaacaa acaagagacg atggcctaca aatgtatcat 60
 atatagcctc attagttatt catctgtagt gtcaaattat aaagatttca tgtctaagaa 120
 gtcctttcta cttcaatcaa ttcttagact ttagtctcca aatgggatgt tataacttgt 180
 acgaattcca gatgagctta tcaagaatgc caagtacata gccacaccat ggaaggggat 240
 cctggcagca gatgagagca cgggcacccat cgggaagcgc ctagcgagca ttaacgttga 300
 gaacattgag gccaaccgcc aagcccttcg cgagcttctc ttcaccgcta catatgcctt 360
 ccaatacctc tctggg 376

<210> 22083
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22083

taagtttgca tttcatcaaa cattaaaggg ttacactatc acacatcaca catggtgcaa 60
 gtttgatgca agttatggga tatagtggta agttaaaaaa aaaaaaaact tatattcaat 120
 tcattttttt taaaatgagg ccaaaatcca acaaaagcat atacgcatga cttttttttt 180
 agattgagtc atgaccagat taatgtaaaa agttccaaat ttaattcata ctaaaaaatt 240
 taagttcgat tcctatatac atcgggcac tttgggtcaa gttagttgct aactggactg 300
 ggttggtgga agcattgttt gcataagctt tttgctggct aattaagact agattatggt 360
 aaaacaacct aaattaattt gtactcaaaa tntaagtatc aatctacaca tt 412

<210> 22084
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22084

agcttacaca accactaaga tcactcttagt accgtttcaa gtttttctgc ttagataag 60
 tctgggatct caatcaaate tggggagtat ttaagggtcaa ttttctttaa attcacaaga 120
 ttctgtaaca agaaaaaacc atcacaatgt tcagaaatta ttaaattcat aatcacggcc 180
 ttaactaaaa gagaaatcta atcattcaga tgagaaagtg gtgaatagtt aaacatagaa 240
 gaatcgtata tcgttcatta gtttacacat tgttagttga attatacatt tcctagggta 300
 ctatttgata tagaccagaa ctccagaagg gaacctgatg gaggttntcc cgaacagttc 360
 tgg 363

<210> 22085
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 22085

acactataaa actaagcttg gtataatgaa tcttgctaac ttaacaaagc tattattcac 60
 tcatttctcg caagtttctt tcattcatta aagttgatag cgttacacat ggccgttact 120
 gtgaaaagag agatagtggg aactctaaac actttttgta gcatacttcc atagaactac 180
 aacttgccag tgcgtcttgg cgctcaaagt tgacttttag tgtacaaatc aaatataaca 240

ttaacagcat aagacaaaag gaattaagaa tattaagaca agacaattta aatcttccct 300
 tttgtgcgtt gtggcacgag ttgcttattg aacctatgga cgctactttc tgatgattgc 360
 tttttgtact taaggataga gtaattgttt cattgccttt gtactatgag cg 412

<210> 22086
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22086

agctttatta gtaattgagc catatatatt cttattctct ttattatttt atacaaactc 60
 acgaaacata ttctttccct cgcttatact cattctcact gtctcagcac cttgccaaat 120
 taacatagct ttaatttctc tccttgcttt ttatgtatca cctatgcata tctctttaat 180
 ttattcatct gcgtaacttg ccaaattaac atagctntaa ttagtctttc attttgatcc 240
 ctttcatttc atgcatggat gattccttta atatggaaga tagacaaatc acgtacatgc 300
 actgtactta actacacaca gcaggcaaag tgggtggtggc caatatctgc atgtatcgaa 360
 agact 365

<210> 22087
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22087

gagattgagt ttccattct tgctgttatt gtcagtaatc aattgccact gtttggaac 60
 tttatctgct ggtaccatag atgcagataa gttgtatgga gttaagtctc agaagaaatc 120
 agaagctatc acattggata ttgatctcaa ttctaccatt cggaatgcat ttcaggcaac 180
 ggtatgtgtt taattttttt tatttgaaca ttttgtcaat gatgtgtgtc agttagagaa 240
 ccttttggat ggaaagtgca tggatattgt tagcaatcat cacatttata acctttcgac 300
 taagagagtt cattcacaat aggattttgg gaaatattca tggacgcttt tagagacaag 360
 gcttatcttt ttttctttnt tttttttg 388

<210> 22088

<211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22088

agcttggtta ggatgcttca atggaggaaa agaagtgagag agagaaagag agagggggga 60
 gcacgaaatt gaaggaagaa aaagagagag aagttgaact ttgagttgtg atgcaatcct 120
 ccctaggaag ggaccagtca ctagaacccat aagcaagaga ctccaagaag attgggctag 180
 agctgctgaa gaaggcccta gggttctcat gaacctcagg gtagatttct gagcccatgg 240
 gcctgtgtcc aattatcttt gtacatatta gactaggatg tcattatatt tggtccttgt 300
 atttagggct ccatattgta ggtagggtag cctagacata taggattttt tcagcccttg 360
 tatttttaggg cacctagact agtntttgta tt 392

<210> 22089
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22089

tgccgcccag ctgcccagg cgagcaaggt tgcttctctc agaagcttta tccttctgga 60
 ggaatcttct ggagggccca agtgggcctg gttgctatct acacccccct ttttactaaa 120
 tgcaccccc ttttctatct gtttgaatt ctttgtccgt aacgttacgt aactttacga 180
 atttcgaaat gatacttatt ttccttccgc aaggttacga atccttacgg attatgtatt 240
 tactctttct tggctttcaa agaagttact gaaactcacg gattgctcaa aaacacgtct 300
 tttcgatttt cgccacatta cggaatttca cggattacgc aagcctgctt ccttatggat 360
 ttctgagacg tctcgggact tcatttattg catgtcatca agtaataatc cccggacgaa 420
 attanggtat gacaatcgct agcgggtatag tacatatt 458

<210> 22090
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 22090

agcttcattg tgagatatgt ggttaaatta aataagatac cttttttgag caggatgagt 60
 ttcttcaaaa attagttcaa aatgctagta tggcagtatc tagtaaaagt ttgaatccat 120
 gcacttagtc ttgaagattt aaatctatga actaacagga ttttccatga aaaagaggct 180
 atactgatgt tgttgaaaca acaaaaaatg catatttgga ctaacattac cgtagaatgc 240
 tcttcaagaa aatatcatga ataaaaatatt gaatggagtt atacctagct tggattgaaa 300
 atgaacaaac gaagagtaaa aacaaaatat gactatagaa catagacaca gaatgaggtc 360
 cacaaggcca aacattcata tgaaaa 386

<210> 22091
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 22091

aagcttcaaa cacttggtga atcaattaca atcagcctgt aatcgattaa aatagagagt 60
 tttaactata gaagaaatat tctatcctta gaacttttct tctaactcct acatgatgat 120
 gcatgatgca catatgaaaa gatagagact aagatgcaac acaaaatata acaatcaata 180
 caaatgtcac tcaagagagt tgaacatgta aaacacaaaa cttcatcaag ttgttcttgg 240
 ttctttttca agcttcaagg ctaagtcttc atgttggttc ccgtatctct aacatatatt 300
 atgcacttat tatatgattc cttccttttc ccatgttggt aattacttcc tgggttcaaa 360
 gatacacctc ttggaacaat aactatgttt aatactctat gcagggttgt cgcttcccta 420
 cacagttcct ttttcttaaa ttacaaaca cttatatcaa aggggaag 468

<210> 22092
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 22092

agcttgctct aaatttacat tgatgtttgt atttatggga ggagggttga tgccattttt 60
 ttttagtagt gtcccactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120
 ccccgaggaa gcttgctca aagagggtcca ggaaggacaa ggcagccgaa ggaactagtt 180
 ccgctccgga gtatgacagt caccgcttta ggagcgctgt acaccagcag cgcttcgagg 240

ccatcaaggg atggttgttt ctccgggagc gacgggtcca gctcaggac gacgagtata 300
 ctgatttcca ggaggaaata gggcgccgac ggtggacatc actggttact cccatggcca 360
 agtttgatcc agaaatagtc cttgagtt 388

<210> 22093
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22093

gcttctatat aagctgaacc attttatcaa taaacacatg ttgagtttta ttcagaaaat 60
 tagagtttat ctcttttata ttagtgagag tgattctcct aaattcttga gtgattcaag 120
 aacaccctgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180
 gtgattcttt ccttcctatc atctccaccc ttgttctttc aaaccacaat tccagaaaat 240
 ccacctctgc ccaaaattat ctctgaccca taactcccat ttcacacact caaattaagt 300
 gattcttgag cctaaattga atttcaaac gagacctttc acctcgtttt ggaatcacct 360
 catttgagag cctgtagctt cgttattgc catttctata tttctgtcca gccaccactt 420
 aacctacgtt ntaccatccc attcatccat tttatgc 457

<210> 22094
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 22094

agctttgtct tattggcttg taccatca ctggctagcg aagctataac ctcatgtct 60
 ctcacagaca ataaattggg gagccaatcc aatccttggt accggactct caaccactta 120
 tgatagccgc cgatgatgc attactgtct atcctaagcc attatgacct ttcttcacac 180
 cgcaccccat gccaaagcga ctccttgag caccctcaca ttgagggcac tgaacaaca 240
 cgcaagaaa ggcgagatgc tttgatctga tggcactcct ctcatggggc agccc 295

<210> 22095
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22095

cgctcgtgcaa cgcacatcttt tatgagttat attatgccac tatctatctt ccgctctcat 60
 tagcatcagg tgtgtgtcac tacaatatgt gcacactatc ttacatatg tatcttctaa 120
 ggacaacgag atatctttca caaacatgct tagaactgaa ctcttttgcc acgattatac 180
 caaacaaca agatcctttc ttttttaata agagctccca gctatacata ttacacttgt 240
 attgcccac catgtgcaaa attactaagg gtgagtcacc caaattgtga gcttaccata 300
 ctcatcgtac ctatagcata ttcaaaccce aaatcaatgc gtcttatctt gcctgactat 360
 ttcaataatc gacaccgtgt ggagtgggaat cctataccat gcctatgggg atgattctta 420
 gtgtgccaac tgtataaacc tcnttgtgta tccgatatgt aaaccctaa cn 472

<210> 22096
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 22096

ttgctttgcg gatttgggtct tcgctggcga aatgatcgaa gtgggtttta aatgaggcaa 60
 atctgatcat catgctttga taaatgcaaa aaaaactggg gcaagtgaag aggggtgaaaa 120
 tgaggggagaa acccatgcta tgactaccat tcctatatag ccaagtttcc caccaaccca 180
 acaatgtcat tactcagcca ataacaacc ttctccttac ccaccaccca gttatccaca 240
 aaggccatcc ctaaataaac cacaagcct gtctacgcga cttccaatga cgaacaccac 300
 ctttagcaca aacaaaaaca ccaaccaaga aatgaatatt gcagcgaaaa agcctgtaga 360
 attcaccoca attccggtgt cctatgctga c 391

<210> 22097
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 22097

tcgtcaactg gtttgggagt ggaatttgca tcggatttgg tggagaatat tggaagctat 60
 gaagatatat agcagtgtcc tttttctctg ttaaataaac ttataactta gtgatgaacc 120

atatagctag gttagcgtgt aaataatatt gaacagaggt ttttaatcat ctttgggaatt 180
 gtaaagtccc tctgaaaatc gcttggcctt tttatggcgc tgcttatgag aatgtaaate 240
 atttggtttc ctccggcctg ttcgggtacgt ttctcaacaa aattgggttt atgtctatat 300
 actttattgg aaatgtctac gattcttcat attatttata gcatatggct ctatccttaa 360
 ttaggcaaga tggtctagaa cttctaccat attatctggc actcag 406

<210> 22098
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 22098

agcttacatt atatatcaaa tttaattcgt tgtctctaga tacgtaattg cttactgtgt 60
 aactttctaa gatactatta gatttgtaac ttctgttatt taaaaggact tagcacaagg 120
 aattgtgctc cttgaaagtg agcaactcag tttaaaggaa agataaagta aaagtttttc 180
 tggtcattga tgttaaaatc ggcgggtcaac gtcacccata tattaattgt ttttttgtaa 240
 cctaaagggt ctaacgagca actcattttt aattattaga ttatgaaaaa aaaatcactc 300
 atattttgtt tatttagttt cttgtacta gagacatgat agtaattatg gggtattatt 360
 ttttttgaac aatacaaaat att 383

<210> 22099
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22099

aaactcaagc ttaggttaaa ttagtctaaa cttacgatgg atcgagggtt attattttat 60
 gctacagcat agaacaccaa agcgtgattg attagagaaa tatcttcata tgcacagct 120
 tggttggttag aaagacccaa cgctttctac ttattgctgt caacttttac ttacttgcac 180
 ttattgtttt taccatagaa gtagtttatt tctgttttaa ccatccatta ttaatgttat 240
 tccaacaaag cttattttat gattaaaact atgtctaata agcaagttcc ctgagtttga 300
 tactcggatc actccgttnt aatgttaaact acttgacgac tcaatgcgtt tctcgatgtt 360
 tcatttcctt tgaatataat tgntgaaaat tggataaaca gtaactgcan gggaaaacga 420

<210> 22100
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22100

ccaccccata gacaaaagag aagagaaaacg ggggccaaga aaccncnatn nnaggagagt 60
 tgagctcaaa ccagcaanaa naaccgggga caaggaacac gagcagccac tattaagaag 120
 agacgcgggg cgggcgcgac gcaaccaac cgcgaaaac aagcagaaag gacggaccga 180
 aagcgggaca cgaacggccg agaaagggcc aaaagctcac agcggagggc cgagaacagc 240
 gaacggcggg aaaacaacac acacgaccgg acaacacacg caagagcaca agaaagagca 300
 aacaaccaag ggacgacagc ccgacagaac gaagcgaaca aacgaggagg ggaaaacgga 360
 cacaacggca cagggcaaac gaagcagaag gc 392

<210> 22101
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22101

agaggtcgct tgatcctttg atactttgaa acacanncan cnaaatagc gtggttttgg 60
 gacagacaag ttttccctt gttaacataa cggggcgcta tggggattga gaccactcac 120
 tccatttata gtgttaacga accacgggat gtataaaggc gtttacacct ctagagtgcc 180
 actgcagct aagcggctct gaatggtagc acaccccggt ccttcgtata tagatgggaa 240
 gatgacctgg caacagacgt gacggtatgc cattacaccc cacatttgat tttgtccaat 300
 tgatttatct aactatcaag ggtggatgaa ttatgagctg ggggccgttc gcatatgtag 360
 ggggatactt aagcactggt tgcgctattc ttaaccgagc 400

<210> 22102
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 22102

tttcttgtgt tactcttaaa ggaaaaaaga tttcaagtta tgtcttgagg ctgagacaaa 60

tgccagcaaa aatgctaccc ttcttttagaa ctttttaggag ttggaaaaca aagggaaata 120

tcttcaaagt gatctaaagg agcttaatga acttcataat catcagaaag aagaaaaata 180

tgatctttgg agagatcgtt caaaagcaca caaagattat gaagacctca atatgagtaa 240

acataatctg tgtggaaggt gaagaacata agaaatatgt gagtttcttg aataatgagc 300

ttctgaagta tcaagaactt aagggtcaac cttcagatgt ttgtaaactt catgaggaaa 360

taataacctt aaagactata tta 383

<210> 22103

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22103

acactctcgn naaactccgc ttgccaagag aaggagtcca cggagggttat gcttaccatc 60

tcaaaagact ggaaagcggg ttctaatacgc tcctctgcgg cctccacata aggcatagaa 120

gatgggcagc tcacctagat gtcttctcgc cctgatacga tgaccagatg cccttccact 180

atgaatttca acttttggtg gagtgtacag ggaacaactc ccattgagtg gatccatggc 240

cgccccaaca gacagctgta cggggggggtt aatatccatt atttggaagg taactcgaca 300

ggtgtgaggg cctatctgta ccatgagatc gatcctccct ctaacctctc ggcgaggggc 360

gtcgaatgca cgaaccacca ttgaactcgg ctttatgtgg gaagcattga atggtaattc 420

tccagagtgc tttaggcatc acgtctaact ggaccattat cga 463

<210> 22104

<211> 390

<212> DNA

<213> Glycine max

<400> 22104

ttgcttgcac gatttacatt ctcccccttt ctcaagcaaa ttcttaattc ttcttgacat 60

catcaaaatc ttcatgattt acattctccc cctttttgat gaggacaacc acctgtaggt 120

tagaagcaac aacaaagaaa aaatatttat ttgcatatag ttactcctc cttgggttttg 180
 caatgattgc ttatatgaga cagttgaaga tttcatatatt ttcatatgta aacaaattgt 240
 ctcataaaca atagataatt attcttacta ttttatcttt tatctttctc tccccctttg 300
 tcaacatcaa aaacaaatca tgaatagaga ggagaaagat gttaccactt tttgcaatgt 360
 atgagaatca agtgatacca aaaggcatta 390

<210> 22105
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 22105

atactctgct cgaatgggaa gtgtgaacgg ttttttcttg cttttattcg ttgaccacag 60
 agaggttcct gtagatatgt ctgagaggtc aggacacctt ttagacgtca ggtgggggtgc 120
 tattgcccac aaccaagctt gaccaatccc gacccatccc gggcatagtc ggtcagtgag 180
 aacctgtgat gtacctaaac aggcgagctc ctgacagtca acagctaaga ggaacacata 240
 ctacaaagca aggaggcttg ggggtggctgg ccagctgtga attgtgtgtg atatgtggat 300
 catggcctct ggtaatcgat taccaagggt ggcttatcta tcacgatgct taaaatagaa 360
 gacacgaggc taagatggtc tctggttatc gattacc 397

<210> 22106
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 22106

agcttgtggc aggcgctaag cgcacgatct gaacgcgcta agcgtgcctt tgaaggccca 60
 aagctcattt ctgcgcctat aaatagagat ccaagccaag ggagaacgta cacctcgctt 120
 catagcactt ctctcagcat tccaagcctg agctctccat tttctctcta tattctttgc 180
 ttttattacc cattctttct ttcaccccta tttgtaaage cctcaatggc catgagcggc 240
 taatccccta gctagggcct gacaggccta aaaagccaac gatgtatggt gtacttcagg 300
 agttatcaat gcaaagagga ttcattccag gtttttaggtt ctaattcttt tctttttatc 360
 ttgcatttat gtcttgaata tctt 384

<210> 22107
 <211> 411
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22107

 ntatcgtcag tctcaaactt ggcctagtct ctatTTTTca aaacctatca tttactttat 60
 ctattgtatt tttattatTT tataaaaaga aactctatTT tattgtctat caaatgaata 120
 aataaaacat tcttttattt tctctcaaT cattatTTta attaataaag gcatttctcc 180
 ttatttattt aattataaaa acctcatcat tttttctaaa aactatTTat ttataaataa 240
 taatccctta taaattagtt tacaaaaaat gaaatgttac aactgagtaa tccaaatgac 300
 aaaattaagg ttgacaatca cgaaaatatt gcgttgagta ggtgatgtac ataatcatta 360
 taagaaaaat atgattaacc ttaatatata agataaatat taagttaatt t 411

<210> 22108
 <211> 384
 <212> DNA
 <213> Glycine max

 <400> 22108

 agcttagcat caaccccaaa ctcttcaatt tccaacaaca catatTTatt gcattgaaaa 60
 attagcaatt gcaatgggtg attccttcta taaatggaag aagagaacca acagagagtg 120
 catgaaaagt gagaaacaaa tcttcacatt tagatggaaa tgtgagagtg agagagagac 180
 acacacacaa agagcatgat agaaagaaaa ttgttttccc attattgtta caatagaagt 240
 ttgagagact aaggggttcc atagtttttc tcttgctaat actgagaaga ttttccatgt 300
 aaaaaaaatt atgcttatta ttctacattt cttcttagtg tccatTTtga cttcacatag 360
 aagagaaaca aaaatgtttc ttgg 384

<210> 22109
 <211> 493
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22109

agagcggtag ctttgatcct tggataacnt ttgatacctc tgcacccgng ccttanaaat 60
 ctaacttgca taaacgggcg ttcctaattc tctacnactg ctttaccgt gaggaggcag 120
 tgaagaagaa tgttgcattht acctgaggtg aaaaacaaga acgagcctat ggttttagtca 180
 agaaaagcta actagagcac ctttataacc cttecttgac tttctaaaac gtttgagcta 240
 caatgtgatg cctccggagt gtgagtcgga gctgttttgt tgcatagtgg gcaccctatt 300
 gctattttta tgaaatactt catggtgccc ccttaactac cccagctatg ataaagagct 360
 ttatggcctt ataagagcac ttccgaactt gggaaacatat ccttgctgca aggaaattgc 420
 attcttagcg atcatcatca cttaggttca ttagaggcaa accagttaac aaagcatgca 480
 aatgggataa gct 493

<210> 22110
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 22110

agcttatatg tttgggttgc catggcttat ctcttgcaat tgattgacac tataatattt 60
 gacgacaagt cctcgactca tgtccatgac acataccact agtacctaag caacctaaat 120
 gcttgccatg agtacgtatg gggagtcatt gcactagcgt gcctctacga ccatctctcc 180
 tatgagagcc aatataccag caagcagtat ggagggtata tgatgttact catgctaagt 240
 aaattattat agtattgtaa ttatttttta ttattgaaat taatattttt ttacagtca 300
 tgtgtgtttg cacatctacc tagtggtgac tacttagagt cggaggattg tgtggtgaag 360
 gacccaatag ccaccagata gaagcca 387

<210> 22111
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 22111

ggactttaag atcgaaggac atgcactgac ccatttatgg ccccgagta cctcgtgat 60
 acgcgcaagt cgcgttcggg ttgaaccacc ttattaaata gtgacaggct ctttttttca 120
 tgggtcacca ccgacaacta gttggcgatt catgaggcaa caagtcctcg tatgacatca 180

aaattaaagc gaactctata acttcttatt agagcgcac cctgaattgg aacttatgct 240
aggatttgaa ttacctaca 259

<210> 22112
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22112

agcttgatag tgtgtaacca accattttct cattgtagaa caccggtaac gtgtatacta 60
tcattgtgat catctttttc tctgtcattg aagggtccac ttgagctgtc aagtcctcc 120
acctctgggc gtattccttg aatgactcat gctctttttt acacatgttt tgtagttgcg 180
ttctatccgg agccgtatca taattgtact gatattgcct aacgaaggca accattaggt 240
ccttccaaga atagactcgg gaaggttcca agttagtgtc ataccctaatt ttcgtccggn 300
gattattact tgacgacatg caacctttga ttggccggtt caagatactt ggcacccttt 360
gttgacacat atgtaagtct tgagacgcac 390

<210> 22113
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22113

nttcgattca ttctatgtac ccgtagtggc ccacattgtg tttcgtgcat tnttattctc 60
gttntgttta cttttttatac cccctcttg acgtgcttaa gccattttac ttaagtcatt 120
tctcgcttaa cttaaaaata aaataaattt ccaccgaatg tttgaattgt attatccatt 180
aacttcgggtt aaaatcaatt ccgaccgttc ggtcatgccg taaccacgtt ggaaatcaaa 240
aagaggtaaa aaataatata ataataaaaa aaatatcttt ttagtgaaat aaagcggaaa 300
atcaatcgga cgttttctct ttgggatttc tcattcttaa tcgaattaat taataactaa 360
agtgaaacta aggctaaaat caactcgctt agtcaagctc gtccacaaaa ataggctntt 420
gaagtttgct atttcaattc ctactaaga aaaatggatc 460

<210> 22114

<211> 385
<212> DNA
<213> Glycine max

<400> 22114

agcttcaatg ccactacctt atagggatta tgcctttatt tatagtgtct acttgataaa 60
tcgacttcca tcctcatcta ttcaatatga attgacttac taaaaactat ttccgaaatt 120
accagattat agcttcttaa ggatctttgg ttgtgcatgt tttcctctat tttgactata 180
tagctcctct ctactaaga cttgctcata atgactccaa agtttctctt gaagattatc 240
caaaaaaatc tattatgacc ctgaagcaac tatctagcaa tgccattaag ctttcttatac 300
aatcttcttt tttctttgaa aatattgccaa aaagagttaa cattccaatc tttcaaagca 360
tgttggatat gtttgaccct ttgac 385

<210> 22115
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22115

tgcaagtgta atcaaattac ttgacttaag catgctttat caaagaataa gttacactag 60
aatcagaagg tatgctcaaa agaataattct ttattaaata tatctcaata tgagtcacgc 120
aactatagag tatcagcatc gctaagaaca agaaatcaca aacaaccata ctatctatgc 180
tattaaggca aaacaccata ctacaagcat acatagaatt ataagggtcc tataacaagt 240
atatagcata catataagaa taaaggattg aacagtcact aagggtgtat ttaaggaatc 300
acaagtttca acaatcacgc ttatgggtcac acataaagaa aaaaagaata gtcaacacat 360
gttaacacat tgattaaaca cactcattca caacacacct gcaagttcaa ggttnttgac 420
aacattaata cacacatcaa gttttcaaga ccacttgtat ca 462

<210> 22116
<211> 387
<212> DNA
<213> Glycine max

<400> 22116

agcttcatat tatcaattgc accatgttcc aagaagagta gagggtagca cctttgttga 60

gtgggttttat taacattatt ttagttgaaa taaaggcccc aacttgtttt aatttgaaga 120
aattaagggt taataagggtg gaaactctag gcttggtggt gcctcttggc tgaccaagga 180
gttgacaaat tttccacatg tttttgtgtc ttattctagt ttttaattagg tataatgaca 240
ccatcaatta ttgttattgt cttaattcta gttttaatta ggtataatgg catcatcaat 300
tggtgttatt ggtgatcatt tcatcttctc actgttgtaa ccaactcgat gtcattccta 360
tttatggggt gcacattttc taataaa 387

<210> 22117
<211> 467
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 22117

tatacaatac tcntgcttat aacctaatta ttgttttcca taaatcatta cgggtctctgg 60
aacatttcaa aatatttggt tgagggtgga tgcatataga aaaagttatc gttctacaaa 120
gaaatttaca aaataaactt ttttttttct ctctctcaag atttataaga tgtttggaga 180
gttttacaac ttaaaaaaaaa ttaaatgcaa agagaatgaa ggcgaagata gttcattaca 240
aattttgtaa tttcaacact ttcaatagac ttcaacaatc aatgtgagta aatcacatcc 300
tttttgcac tgaggcaagt atcaattgga gcattaaatg ctgcattcta ttctattaag 360
tgaagatttg aaataaaaca tatcggttgc ttaactatag acatgtttca agtaaccan 420
agggttgagg cagtggtaaa atgaatggaa atgatatac taatata 467

<210> 22118
<211> 394
<212> DNA
<213> Glycine max
<400> 22118

agcttggtca tggtatttaa aagatgcagt gacatatggt ttcaacataa tttataataa 60
aaattggtca tgctcataat cacccaattg ctgacagatg acctgaaaat tacatagtta 120
agataaggaa gcacacttgt gcacatata taagagaagg ttgtagcttg cataatgcgg 180
aaattggcaa taaattagga ccacagataa ggagattttt tctttctaaa ataacattac 240

aattgatcag attaaaggat gtaagaataa ctatgaccat atgtaaaaaa ttctgacata 300
tcaatgtaaa attctaaatg tacatatgac aaataaggca gcttcaagtt tggaccaata 360
ttgtgcttac aaggctagaa tactcttattc aatt 394

<210> 22119
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22119

ggagggcctt gancctttga nccttgagac cctcgaacca ccacacnaan cnactactgt 60
cactgccaca cgcgtcttcg tgcaatttac tgcattcaat ccagcggcac tgagggatat 120
tcacgaaatc ctcgcaacct cgatatatac ttctgcccga ggggattgct cctctgagga 180
aaacagacta taccaacgac cgagataata tgctcctgac accaaagaac agtctattcg 240
tggagaagcg gatcatactg agttccggat cgattcgcgc gcgaatgcga caaacccaag 300
cttcgcgaca gtgtgtgcga ggaacaacag tcatgcatca tagactcaga tgttcgccac 360
gagtatgtcg ctcgagagga ctctctttct atcaagccat cggacaagtc atgcgtcatt 420
cctgagccgg tgactcacgg atccttaaac tggatgccgg cctcggaagc atccacccca 480
cctttccata tcg 493

<210> 22120
<211> 387
<212> DNA
<213> Glycine max

<400> 22120

tcttcttgaa ccaaaaccgg cgagagtgtg atcttaaact gtgatcgaa gacttgctat 60
gagtaataat ctttgcata atctcttaac tttagaatga aatgtataaa tgaggacatg 120
atggaggcca tgattgtgca tacacaagcc ttttgaccaa aaagcttacc ttgaatgata 180
actgtaccat ttgcaccctt tgtgagctga atgatgttgt caataattga accctgaacc 240
taaagatta tctccagata ccttgcttag attctaggag agcatatggt tcaaggcaaa 300
ttcaccccaa atttggggga gtggaactaa ttgggatgca aagaaagaga taaagcatca 360
acacacacaa catataagtt gtgtggtt 387

<210> 22121
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22121

tcggggaatc tttggacaac gttgttttga gtangtatgc cattattggc cattgaactt 60
 gcaaatttgt agctcctttt tcatttcagc ccaacaatag tttggttcgc ctggggccaaa 120
 gtgtggtaag gtgaagcatt aagctcgagg gttatttcga accagctaga attgtgttct 180
 ggctgggcca gagcttgaca gaaaggagaa ttctctccag gggttatggc ctgaccaaag 240
 ttgtgtttta gttgggctag actgtgacaa aatagagcat taaactccaa gagtgtttta 300
 gcccatcaag aggttgtgtg attgggacat aaaagtgata gaatggtttt agccagacta 360
 gaatttggtc aatcgggcca aaaatgtgat agaatgggta acttatgtct acaggagtta 420
 t 421

<210> 22122
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 22122

ttgcttcctt tattttcacc ttttcccag cttataaatt cttttaactc aaaagctaaa 60
 ggcctaaatc cttccaccaa agatttataa ctttaagatgt tacattggac tataaagtgt 120
 atgtgtggat taatgcttgg ataatatatc gcacgtttta agaacagttt tgcgagaaac 180
 aacaaaatat cgcattactc aattgttgtc cctgaagtgg aacaatgaac acactagtga 240
 cactacaaga aattacatta gaccacctgt acaagtttat atagataaag catgtgtatg 300
 ataatagggc tgattatgtt gtgtgataca ttgtccggcg tgatatatat ga 352

<210> 22123
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 22123

gttgtgcaga gacactctat gttctcatat caaaagctta attatacata ctgctatgaa 60
 tttttaaaaa aaataatatt cttaataaag gatattttca tgattatgat ctctaatacca 120
 tttttcacac gtatgtttat ggtaatgcga tcattcttgt ttaactattt ggatacagtt 180
 aaaaatcttt tatattatat taactcatat atgtattaaa tattaaaata tcaataaaaaa 240
 tatgattact ctttgatttt aaaaaatatc taaaattctc atgactacca 290

<210> 22124
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 22124

tgctttacac caagcttgaa caatctaata ttctttttcc tatcaagcca ttactaactc 60
 taacacaaat aaaaaaattt gttgtttgat tggctcacta actaattctt aattgtctta 120
 caaactaatt ttcaatctaa gcaattagag aatccttagt gctagaaccc aatttggggt 180
 cttaaccact tttaaatggg tccttttagtg acatgtaggt ttttaagaact ctttgatttt 240
 atgtctgtac tggtagaacc aattttcaag ttcttaagtt aatctaagcg gccccacagt 300
 atattttact ttctttttct gtttctacat tttgtagtgc ccaccccacc ccatgagacc 360
 ccttcacttc cttttctctt tac 383

<210> 22125
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22125

tcttacaaga gactaagana cttttgtcta anaattttga gacgaaagat cttggggaag 60
 actcttttgt attaggaatc aagatactaa gagatcgctt tcaaggatc ctaaggttat 120
 cacaagagag ttatatcgat aaggctctag atagattcaa catgaaagat agtaaaccag 180
 gagatacccc aatagctaaa ggagataaat ttagtctcaa acaatgcccc aataatgacc 240
 ttgaaagaat agagatgtaa aagattcctt atgcatcaac agtaggaagt ttaaagtatg 300
 ctaaagtttg cacttgctcc gatatagcat ntgtagtagg agttctgggc agatatttga 360
 gtaatcctgg aataacaacat tggaaagcag taaaacgtgt gatgcgttac ctaaagagaa 420

caanaggata catgctcaca ta

442

<210> 22126
<211> 379
<212> DNA
<213> Glycine max

<400> 22126

tatctttcat cttccataag ctgttccacc tgaagttttg agaacaatct gttaaatatta 60
ggactgaata aagggatgct tactaaagat acattattag ttagatagga gtgaaagaag 120
tacaataatg aagagttaag ttactaaatt agaatatcca atcaatgatt cgtattgtca 180
tgtttatggc atacagaatt tcatagttca ggcgaaattt agttcaaaca gtaataaatt 240
ttagttctct gtcttctgaa attttatacc tagtacgaca tctttactgt attactattc 300
gctaactaga acatgatggg tgttcttaat tgttcatagc gtgacgaact acatgattaa 360
gacttcttat ctttaaatt 379

<210> 22127
<211> 349
<212> DNA
<213> Glycine max

<400> 22127

tgagaagtac tgctgaacac aacattttta ataaatttat gtttgtgttg cagagggcgt 60
aaataaactt aacggccaat attctgagct tattcagaag tccgagtggc gaacgtaagc 120
acacactgca atgctaagct ttggcatata atataataat aacgaaagtg attaaaaatt 180
ctggcaaaaa tctactagct ttataaaaagg ctgagaacac gagcattgcc aaggggatga 240
tgataagctg atctgaagga aattctgttc tgaaaccac actcattctc tatctctaaa 300
aaataaacac tctctttctc tctctagaca atagagagaa gtgaaatga 349

<210> 22128
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22128

agcttgtagg attatggggt actcatcaca tgtgggtacta ggtggcggtc gggcgatggt 60
gcaagacaat tctccacatc cacaaatcac gtataaaccc accatcccct gttgccacc 120
tccaactgag ctcacgtact cccacgtagc ccatattctc gtttctctca acaccgggtc 180
cccatcaatc ctcccaagct tccccaacat ccaggtaaata caacattcaa acagcacaaa 240
ctatcacagc caagaaaaca gggcaaaggc agaaaactct gcccaaaaaca ccaacaaaaa 300
tcacagcttt tttctcactt agagacccca gtaacatttc cttcgttcca attctttaac 360
cgttggatcg actcgaaaan tttactggaa gt 392

<210> 22129
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22129

tcttccatgt ctctaccaac tgcattatca tgaatattac tgcaaacatt taacatgcat 60
taattattag tcagaagaaa caaaagtcac agtgcttttt ctttttcaag aaagaaattt 120
aattttgaag gaaaaaagac tataagaatg acggagataa tattctcctt aaaccaaaga 180
acaaaataaa aatggagaaa caaaaaatac agaataccaa acagaatccc taaagaatgc 240
taaaaaccca tgtattgtga cagtgtatgt gaggaagaat tgtagtggat catagcccca 300
agtgggcaag aaaattggct tgacttgggg taactaactg ccagcacggc cagtggggaa 360
attctgttgt aagctacaga gaagagatat aagtggttat ggtgaaatgt gatctgatgc 420
tgttcctatc tatcanaatc cttgagttan acaccaagg 459

<210> 22130
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22130

cgcttgtcaa ctttgtacct gaaaccctct gtctaaatca aagctttgac cctgaaaccc 60
tctatgtaaa tttgacagcc tcgtatctcc cttcctgaaa acccactaaa aactgtctaa 120
ccccccctgc tgatactcta taattcattn tgcaataact gcttaaggca gctacatata 180

gtcctaaatc actacagatt cagttacgac taaccctgtg tgcctaacta gggtttcaaa 240
 acatcacaac agagaccgac cattgaacaa tggattgtca tcattataca tacaacagag 300
 acataccttc gatggaagcg catacactaa ctacacaaac gctaactcga caatgcg 357

<210> 22131
 <211> 347
 <212> DNA
 <213> Glycine max
 <400> 22131

tatgtgataa atcatgttct atgtgatagt tgtatgacgt tttggagaca ttttacagaa 60
 cctattaatt ctgaaggga aagaatatat agtcttcaaa tgtttctcta cacacacact 120
 tagagcagta ctcatctcga tggatctaac ataaggcgga caaccttaag taacatcatt 180
 ttagaggcac agcttaagt agttgtat ttagaatctt tctaaattac tttctaggag 240
 gaatccatta aaatacacc ctaatttatg agctttcata aatgggttta agtagttttg 300
 tatcgacatt atgtaatgta tagctaaatg aggattttct cttgttt 347

<210> 22132
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22132

agcttgccgc gtcaaagat tgtttctgga gaacaggatg gatatatata agagtgcagc 60
 attctgtagc ttttctgtat aatgggttgc tctctatctc ggcattgtgt ctgcattatt 120
 ctcaattgat tatatttcaa ttagcactaa aatcttctat tatcttattt agagtatatt 180
 gcatttcata aatctctcct gcaggtcagg tggctttaga tgcaccattg cgcctcaaaa 240
 gtccgcaaag ttgtcaaatt ttatgcgtta aaccacttgc tgtttctgct agttcttgtg 300
 ctcaatttgt tttgaaagga ttcaattttt tgctgtctaa ctcgaggtaa atctctatac 360
 gctngatgat ttgaatttgt 380

<210> 22133
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 22133

tcagtgcgaag cgcatatcta acaacaacaa agaaggggaa ccaaagccta acaacaacaa 60
caatgttctc aaagacaatg ttgaatctaa tgcacggaga acctctagaa tcatgaagaa 120
gaagcacatg ctttaacaac aacaacaatg ttctcaaaga caatgttgaa tctaacgcac 180
ggagaacctc tagaatcatg aagaagaagc acatgctttt cgaggattcc gatgatgctt 240
ctccagcgtg gaagaaggcg ctgaagcagg gcgatatgct ggagctcttg aagatgggtgc 300
taaagacaga ggctgagaag aagaagagca agaaaaagaa aactgataac tantttttnt 360
aaattggaac aggtgttact aattttaagt tagagttgta atatttatta taacttnntt 420
tntttttact ttatcac 437

<210> 22134
<211> 392
<212> DNA
<213> Glycine max

<400> 22134
agcttgtgga tccagggatg gttctaggaa atcattaag gaggggttga caaaattgta 60
ctttaattat ttaaatatct aaattctaataaataattat ttaataaata attatttatt 120
agttctacag gtaaaactaa aattgatttt tatttcaaataacatatt tcttatttca 180
agttttgaaa gatttgttga tctcaciaag acgatcaaataagacaataat atggctttta 240
aaaagaggaa taaactcatc aaatataata atagttgaaa taaaatatgt ttttagtcca 300
ttatacttac gttaattatt tttgggtctgg aaactttcat attgtaaatt taatccttga 360
aatttatata aaaaaatgat tatagtctct ag 392

<210> 22135
<211> 464
<212> DNA
<213> Glycine max

<400> 22135
aaaacacctg tagatagttc tttctttctt atgatgaaaa tgattcctat cgatcaaatt 60
tggtgcctat tgtagtaatg acgtggctag gtcataaatt attgctgtta cgtggaatta 120

ttccaatttc tgcctcacat ttattttgat gataacaatg cgcaaaactt ggtcctgtaa 180
gactagtcaa ctgccatgca atgtgccaat gggggggccc tcggtttatg cttgcaattg 240
tttttatcta acaaaaaatt gacggaattt tgatgggttt atctctccaa tacacatgaa 300
ttttacaact tgccacgtgg tcttgatctt caaattggac ggtgagatga gtattgttta 360
tggcattgag tttgttttcc ctcatggaa ccaagcta at tggaatagaa tccaataagc 420
tcaccatttt tacttgtgac ttctcagaac aacctaaatt ctcg 464

<210> 22136
<211> 386
<212> DNA
<213> Glycine max

<400> 22136

agcttggttaa gatcctcctt ggtggggatg tgacgtgcac cgcacacact cacgagctcc 60
tcacgtgccc gtatctgcca ctgcggatgc atcgcgagca ggatcgtggt ccacgttagc 120
aaattcgaag tgggtgtgtt gctgcgaag aaaaagggtt tgcactcttc cactatgtca 180
tccaccgtta cgttcacatt ggaggtggtg ttgttgttgt tgttgaagc ccaaatcatg 240
agccccagca aatccgttgg ctttttgtt tcttcttcc cacacgcatt ctcttttctt 300
cgtcgttcga tgatcttcac caacgatttc ttgatttct tgtccagttt ccaagaatat 360
atattcctcc tcgtggggaa gaatct 386

<210> 22137
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22137

tgcttctaca ccaaacctga agcatccacc tccaccataa agaattttgt taagtcaggt 60
aaagccaaaa ctggagcctc agtagcttct tctttaattg ttgaaaagcc agttttgttg 120
catcagacca gataaagtta tcttttttaa gcatgttagt taagggttta gcaatgccac 180
catatccctt gacaaacctt atgtaatatc caattaacct caggaagcct ctaagttggt 240
tcaaagtttg aggtaatggc cactggtcta ttgtgtgcac tttagctgga tcagttgata 300
ccccctcctt agaaatgaag tggccaaggt actctacat agacacccca aaatagcact 360

tactcttctt agcagacaag gaattcgcct tcatagttat cacaactttg tgtanatgta 420
gcaaattggtc ttccaatgaa caatt 445

<210> 22138
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22138

atcttactta cataaaataa aatccatctg atatggaaca catgagatac acaaaaaata 60
ccaattgata atgaacacag ggcaaaaaga aagcgtagtt acactctaca gattatgcaa 120
tttaatacat acttattttc ttaccctaa caacaaattt tttacaatt gaaattaacc 180
cacaataagt attcagtaaa aagcttaaaa ctcaaatacag acaatgttaa attgccacac 240
ccttcttcct taccttggaa tgaaaatcca tcaaattttc tttccattgt caacagagcc 300
gtacaagaga aagagtctga cttgtccct tgaagaatgc ctggnagac actctgtaag 360
agaatatata atttgaaatc aaaataac 388

<210> 22139
<211> 452
<212> DNA
<213> Glycine max

<400> 22139

taaatagact gttccatgct attacctatt attactgttt tttttataa aaaaattact 60
tttcaattac attaatgata tagcacttat ctatctatct atatatatga gtataaaatt 120
aattaattta ctataaaatc aataatttac tatcatgtta taaaattagt atactctttt 180
attactataa tatagttacc gatgtttctt tttttttttt aaacagcaaa atatattatt 240
aatgaagaaa ccatgtgatt acccacaagg agtgacaacc aacatgcata gagtcaccga 300
tttttgataa tcaatataat tataacctga tataggttat acttaaacat tttatttatt 360
agtttctaac acgaagattt ttctattatt aaatctactc taaataaaca aaactggcaa 420
atttaaagct tttaaattgt acaaaatata at 452

<210> 22140

<211> 389
 <212> DNA
 <213> Glycine max

<400> 22140

agcttgccac ccagctcgct caggcgagca gggttgcttc ctccagaagc aacagccttc 60
 tggagggccc aagtgggcct ggttgctatt tgcaccoccta tttttactaa atacaccccc 120
 tgcctttttt tgggtgattct tttttcgtaa agttacggaa acttacgaat ttcgtaacga 180
 tacttgTTTT ctttccgtaa tattatggaa ccttgoggat tacataatca tccccTTTT 240
 ttacttacgg aatgttacgg aacctcacta attgtgcaac gatgcttctt tttgatttcc 300
 ggtgtgtcac ggaaccttac ggattgtgca tcaatacctt cttttcattt ccggcatgtc 360
 ccggaacttc acaaattgcc taatgatgg 389

<210> 22141
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 22141

tgacagtatt acaaacttga atatatgttg ccaagtgtga gtatggatct tcatttggtta 60
 acccatgaaa caaattgctt tgtattagct gtatcaatga aggtgggtaa gttaagtttt 120
 gtgcttgaac ctctggccgc gcaacacttg agaaatattg tggcaccata gtacttgagt 180
 aatcttccaa ggtcactcgt cgaggttgct cttcagccat gacttcggct tcaagttctg 240
 ctgtttgaga ttccttggat gtaggtgaac tagaagatga tgactcagaa aagtgagcct 300
 cttcaaggat tgatgctact gtcctgtcgt gcaaaagctt tctttttctc tttgcgttgt 360
 ttcttctaaa ggtggcttca atttctaaat ccaatggaac caattcacct gcagaagatc 420
 tacgcataca aacactaaca ggaacagcag ttaaccaat 459

<210> 22142
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 22142

agcttatgca attgtgttat atccagagca aaacatattt aagcctattc cagtcaaaca 60

gaaatacttc ttataataga catcgggtggc gttaaaaaaaa aaatataaag tgtaatacaa 120
aacttttcaa cagataattc attcaatgtg gtccaaaggt tgttttagagg ttaattttta 180
attgaaacat taaaattgaa gtccaatgca atttcaatta ttgagataaa catgataaat 240
ggtacttttag ctctttttatt cagagatcct tgcatacata atgcacacca ggaaatttag 300
cagcaaatta gatttcagtc atttgcatca gtaatgtgga cttggatcaa cgctgctaca 360
taccaatgta atttgtaagc ataagctaaa tg 392

<210> 22143
<211> 427
<212> DNA
<213> Glycine max

<400> 22143

ttttctctgg ctgttttggt aggattctca agcgttatat agagaaagaa aggattatta 60
gtctcaattt tattgtctcc gtgcgacgga tatttctctc ttacaaaca ttatttcaa 120
aatcccaacg gtgaagatgt gagaatttga ggaccatacg cggagtctaa atttcaggat 180
gatccaacag ttaacgaatc caagatcata gttgtactgt aataaattta cgtgtatgcy 240
aaaaaaaaag gaattttgag agaggaagga agacgaacga atttatgagg aagtgaagac 300
gtagatcaat atcaaaattg acctaatatg tttctatcta tagtttagagt attctaaact 360
tattatctac tctattattt tatcttatca ctttataaaa aaaagaactc tctattacta 420
tgtcatt 427

<210> 22144
<211> 212
<212> DNA
<213> Glycine max

<400> 22144

tagcttgagt aagcctctcc cagagacaag caaaatagct tgggaagtct ctatcctcaa 60
gcttgagtga accaccataa agcgactcaa ttatgtaa atctccttgt aaccctacta 120
tcactatgta tagtgggaaga atctccatat tggagaatta taatcgtgcy ctctactac 180
tacctgtaat tactatgtga ctatcttaac tt 212

<210> 22145

<211> 510
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22145

ggtgcgagtc gcnttgatac ctngtagata cctagatacn ccgagacact atcnaagact 60
 cacacttgat tatacatggt tcgcgtctac tatatccaca ctttactggt cgaacgtgag 120
 gagaccttcg agcctatatc gctcacgtgg tggacaaaaca aatggcctgt accgtgcata 180
 gccaaccaat ggtcattgcy caattgtttt attgccgtaa actatatcgc gcacacaaag 240
 ttcttgccga ctcgatgct acgcggaccg tgatctacta ctcatagcag acatgctgct 300
 tacaccatcg aacatctggt attagcaaac tctcgacaga ggccggcccgt tgagaatgaa 360
 acatgcaaga ccccttttga gaagcaaggc gcttattctt gaccctactc ccataatgca 420
 aaggtcgcca catcacaagt tacgactgta gggttgcacg accattgacc ccgcaaagggt 480
 tttatgtgat ctgaggcaca ttgtaccacn 510

<210> 22146
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 22146

agtttgcttt tggagattgt aactatgctc ttgtgtggtg gaacaagcta caaaagggtga 60
 gagcatgaaa tgaagagcca ctggttgata catgggcgga gatgaaaagg atcatgatga 120
 agctgtatgt gccggctaga tactcaaggg attagaaatt taatcttcaa aaactaacc 180
 aaggcaacaa ggggggttgag gagtatttca aggaaatgga tgtgctcatg attcaagcta 240
 agattgaaga aaatgaggac gtaactatgg ctcaatttca taatgggtctg actaaagata 300
 tccgtgatat tggtcagtcg catgagattg ttgaaatgga ttatttgctt cac 353

<210> 22147
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22147

gaggcgcggt ggtccttttg aacttgagac ctggancacc aaactcaa at cccagagtga 60
gacgtcagct ttaggacatt ttgtccaata ttgncggggg cgacagccga cagagacgnt 120
tggtttcgcc taactaaaac tggggcctcc tcgatcttct tttacaagtg gcgactgtgg 180
tccccgtgtt agttctgggg acaccatatg ggaagtcttc ttgggggagcg taggaacaaa 240
ccccctgaaa gctccaaggg ggatcccacc cctcttgggt gcaatgtaac ccccgcgacc 300
tcgtgcttga atattccacg tctactctct tgaacagaaa gaggggtgtc tcctccacag 360
aactagaaa atacgtcctt gacaatgtca ggaggcgac tccctcctta ttatgtcaac 420
tctgcccattg ctcatcagg gatctctaaa tagtgtgcc cagctccatg ctct 474

<210> 22148
<211> 385
<212> DNA
<213> Glycine max

<400> 22148
ttgctttggc atcatcaaaa catcttggtg aatcatcatg gtaactttgc ttccataatc 60
tccccctttt tgatgatgac aaacctgaaa tcaagagatg catacaaatt attttctagt 120
cgttcactca ctttattctc cccctttctt tttaagttta agattcattt taagttaagc 180
taataattgt atgaattctt gatttatatg accccacatt tttctcccc tctggcatca 240
acaaaaaggc caaagtacgt tgtaacataa aatcatcgc aaatggatta acatacaaga 300
gatgtattca tacaagaaaa aggagaaaac ttataaaaat caagcaagat aataaattat 360
ccacacatca taataaaaac atatg 385

<210> 22149
<211> 447
<212> DNA
<213> Glycine max

<400> 22149
tggagaggat gcttcaatgg aggatattaa agagggtgag aaagagagag gggggagcac 60
gaaattgaag gaagaaaatg ggagagaagt tgaactttga gttgtgtctc acaagactct 120
cattcatcaa agttacaaca agtggttacac atgcttctat ttatagacta ggtagcttcc 180
ttgagaagct ctcttaagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240

agctagagtt tagctacaca caccatcta aaaaataagc tcacctcctt gagaagcttc 300
 cttgagaagc tataacttag ctacacaccc ctataatagc taagctcacc cccatgacaa 360
 aaaaaacatg agaatacaaa aaaaaaatcc tactacaaag actactcaga atgccctgaa 420
 atacaaggat aacaccctat actacta 447

<210> 22150
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 22150

agcttgtagg attatggggt acccatcata tgtggtacta ggtggcaatc aggcgatggt 60
 gcaagtcgac tctccacatc cacaaatcac acataaatcc accatcccca gttgtccacc 120
 ttcaactgag ctacagtgt cccacgtagc ccttatcctc gttcctctca acaccgggtc 180
 cccatcaatc cctccaagct tccacaacat ccaagaaatt cagcatccaa acatcatgaa 240
 ctatccaaaa ccaagaaaac agggcatagg cagaaaactc ttcccaaaac acattccaat 300
 accacagttt tctcactca aataccccag taacattctc tatgtttcga ttcgttaacc 360
 gttggatcaa ctcaaaattc ttact 385

<210> 22151
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 22151

tattgcatga gctatatcag gttgagtaca tgccatagca tacattattg aacctataat 60
 gttagcatat gtgatactct ccatataagt atactcttca gctctctttg gggattgact 120
 tacacttagt ttgaattgat catatatagg tgtcacaata ggccaacttc gaatttgaca 180
 ttccaaacct ttcaataaat ttattgaggt atgtctcttg agatagatac aaaatcttct 240
 tctttctatc ccttttgatt tccattccca atattctcct tgttggtcca agtccttcat 300
 ttcaaattcc ctttctaact cagctgtgac cttggtaatt tcggccttac cgttacttgg 360
 tattaacatg tcatcaacat atagcagtac gattacagag gtacctttat tccttttgaa 420
 tagccatttt caattgacta c 441

<210> 22152
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 22152

tatcttacta taaataacaa ttaatatatta ttatcaaata atagtgtaaa aataatttat 60
 actatctata tatgtataaa ctatttgctc ttaaaattta aaacaaaaga aggaagatta 120
 aactcttggtg agagcacggg aaataaaaagt atataactga gtcaaaggat gtatgcttag 180
 agacaaagga tgcattgctta gagagttatt atgaaaattt aaatgtccaa cataggtata 240
 ttaaaactaat aattaatcta cacattaagg aaattactat gggaaattac tatggtatat 300
 tggtagtgac atgaagataa tatgtaataa tacgggtgagt tattaactat ttgttaaata 360
 atgattctat actaaatggt cgaaattata ata 393

<210> 22153
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22153

tcctaaaatg aaaacatctg gaggccttta aggatatcta gaattaactt aaatagaagg 60
 cattaataat gtgaactatt catacatcat ataacttaac agtcatgtta agctgcatca 120
 tattgtacaa tgatgaagag gatatagcac atgattttct tatcggggat cagttctatt 180
 ccctagttt gcaatttttt ttggcatcta tactttttcc ttttgcaaaa tagaaataaa 240
 atttaagcta atctgtcaaa tacaaaaaatt aaacatttat aatatatcca atgttcaaag 300
 tcaaataagt aaataagaaa aagaccatgt agttgaaaaa atgttcataa aacacacaaa 360
 gatagaaaaa tcaaagcaca taaactaaat ctagtggtcc caattctttc tccggcagat 420
 gacaatctcc catattntgt caatgctcct gtaat 455

<210> 22154
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 22154

agtttctaga tctcttggag acaacaaggt gtgttttcat ataattactt ctatttttaa 60
 caaagcaata gaaaatgcc aagcagattta tgcttgataa tatctacata aagcagaaaa 120
 ttacgatatt ggaaaagaca gccaaagatgg tgggctaacc gtacagtatt atcatctagc 180
 aatgagaaat tctttttccc tgcttttctaa tggcaataat tgtagtaata aatacagggt 240
 atatagaaga acattgactc tatggactta ctacgataag acaaaggaaa gagaaaaagt 300
 ggctttgtgg cgcataatga gcaatacaat gttagagagg gataaacaag tggatatat 360
 tttagtagaa ctgatcatg 379

<210> 22155
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22155

agacgagtgt cnagcttttg ataccctgt tgaaaaccct tagattaccn tgcacatnca 60
 cgngacacta tagacatact caagtctata ntgagcagtt catctactag tgactattta 120
 ttgcactata taattgatgc gtcattgatgc gagagcatac aagttcgagt atcttaggca 180
 taatattact attatctgac gatcactaca atnatgattc ttaaaatgat atcttctaca 240
 atattcgctt attttaatat tttggtgcag ctattttaga actatcattg gaataataac 300
 attattatgt ccatgtaata tgtgcataca tttgcttttt cttcctaaca ttttttagag 360
 ggacttcctc ttaccgcaca aaatactatc tactctacga ttacctgtgg actaaaaaga 420
 tttcttctgg agataatgat gctaatagtg ttaacagcaa aaagagttcc acttattaca 480
 aaatatgtat caacttcaaa catatttatt gaaaccacac atagttaatt cccacatatc 540
 atttttctn 548

<210> 22156
 <211> 378
 <212> DNA
 <213> Glycine max
 <400> 22156

agcttgggtgc cactcttgaa acaaaacacc aaggttcgac atatcgtgtt catcatctgg 60

gaactcccaa tctaaatcga gaccattgaa cccgtattgg cgcgccacgt ggatgggtgga 120
 gtttatgaac acttgctcgtg tgtgtttgtt gctagccatg agggagaatg cggttgagtt 180
 gctaccacct cctccaattg acaagagagt tttcaccggc gggtaacggg agcggagtcc 240
 attgatgaat tttggtatcc atttttcatc aaattcgggtg acactaaggt gaaaaagttg 300
 agggctcttgt tggataaagg catagtagat atgagtgaag tattttgtgt caatggaaga 360
 ggggtgaaagg tcatcacc 378

<210> 22157
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22157

tgaagtgttt tcaacatatt tcagtttgcg ggggatatta gagatataga tgagtttaat 60
 tagttacaaa ttagttatta atttagttta ttacaagtta gtttagtta ttacaaattt 120
 agttacaagt gtaattatat aagatttcaa gtaaaatctg atttgctcgt tttaagcatt 180
 attcaaagta atattcaggt tttcttttct cttattttca tctctctacc ttgaactttt 240
 atcataaaat gtaattgaac taatcaagat cactagttaa ttcagctcac agttttaaaa 300
 atgatacacg atcgactgca atttcagctg tgatactgtg acgccaagat tnttgaaaca 360
 tgcaagactg tattaacact acgattgacg ttgcattgtt catatttgta tgcactatga 420
 tagaaattgg tatatatgt 439

<210> 22158
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22158

gcttctacaa tctccccctt tttgatgatg acaacttctg aaatcaagaa acacacacac 60
 acacacacac acacacacac acacacacac acacacactt tttcctagtc gatcactcac 120
 ataaattctg cccctttgtt tttgaattta tgcttctctt aaaattaagt agattactca 180
 tgtgagttct tgatttaatc cctattttct tcccccttg gcatcaacaa aaagccaaag 240

tgcatatcta atttgaagta ttcaaata actaaacatt catacaacat tcatggaaaa 300
aactatcaac caaatcatga agcaagaacc atgaagcaat aatcatgaat agattaacta 360
taaaatccac atagtcaa atacatactn 389

<210> 22159
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22159

tcatgatgat gaatcaagta taaatcaagt agtntgatg atgacaacta gcccaaaaga 60
atgatttcaa gtttgagtca acaagttcaa gatcaagatt aatttcaaga ttcaagaaaa 120
gacatcaaga tttaagagaa gatgaattca agattcaaga gaagaaatca agaagcaaca 180
agtcaagact tcacaaggga agtattgaca aagaattttt caaaaaccaa acatagcaca 240
gttttggtttt acaaaagagt tttctcaa attttctaagt taccagagta tttactctct 300
ggtaatcgat taccagttta ctgtaatcga ttactagtga taaaatttga tttcaaaaag 360
tttttaactg aatttgcaac gttccaaaag aatttttaaat ggtgtaatcg attacaatat 420
attggtaatc gattaccagt gtatctgaat gttgaattc 459

<210> 22160
<211> 393
<212> DNA
<213> Glycine max

<400> 22160

agctttacag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60
ttaacctagg gaattaaaac aaactaaatg gctgagtgt actgaaattg ttggcaacca 120
aaagtcaccc ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180
taggttgcca attgggccct tattacaact tgaactaaag cccttttagt tgattaaccc 240
aaaacatatt tttggtcagc caactctaca aggattgggc cattatttag acaaactaaa 300
cactctaaaa ttgaaataaa gtggtgtcat ttagtctcc atttgcgcca tgatacaact 360
cacaaccttg gacttttctc cttgagactt ggg 393

<210> 22161
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22161

actcagcttc ttacatagtc cgcctttgct tgaccttctt tatgtttaan aacattaaca 60
 ttaggcatag gcgaaagatc acgacgagtc tgtgggttaa aaccataaac aacttcgaaa 120
 ggagaacaat tagtgggtgct aaaatccttc acaaatcatc tataaaaact tgctaagcca 180
 tgaaaactcc tcacctcggc cacggactta ggtgtaggcc attcttgaat agccctcaac 240
 atttcctcat caacttgcat tccttttgaa ctcaacaaca aaccaagaaa cacaacatgg 300
 ttagtacaaa agatgcactt ttcaagattg gcatacaatt gttcttctct aagcacaatc 360
 aagacagatt ctacatgac aatatgcaaa tcaagtgaag tgcttagata aaatatcatc 420
 aagtcacacc acacnaactt tctataactc t 451

<210> 22162
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22162

agttactcca taancgaaga cacaccgaca aacaacacga aacacaaaca tggccacgca 60
 acagccacgc gcggaccgga caaacaacgc gggacaagac acgccgcgca agcggccacg 120
 aaacgaggta cgagcacatg ccacgcaaac gcagggaaga gcagacgcca gaaaacgaaa 180
 cagggctaca aaaccgaaa aaagacacga aggacgcaac ccaagcaccg cgacccccac 240
 acatgaacaa aagcaatgct cgccaagggc caaccctgaa caacgacaac gagggtcggc 300
 caacacgaac atgcatgcag acccagcaag acacgagccc accgtcaact tccaacgaac 360
 caccgc 366

<210> 22163
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 22163

tgcttctata caagcactca taactatggt ccttcccttg acaccatcgc tgccgtcgtt 60
 ctgggcccgg ctcaacttggg ggcagcactt gctgattatg attatgatga tgacgatata 120
 ctctcagatc tcaccacaaa ccaatggaga catacagacc gactgcatgg ggagcatgat 180
 atg 183

<210> 22164
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 22164

agcttatttta aatctaatta agaagctaac ataacaatat ctgtgtgtgt ctttgtatcc 60
 gtgtgttttat atttttaact atcagatggt gtagttgttt tcaagaagct taataaagtt 120
 acagaatcaa attataatgg atgtgacatt catatatgaa gcaagaataa ccaacaaaaa 180
 agttaaagga ctatagtggg gtaaagaagc caaactgggt ttctatgttt taagatttgt 240
 atctattttta ttctctaggt cttccttatt tatttgaaag aaaaagattg caaaacatca 300
 tgcaggcata ttataccttt ttttttgggg gggggggagg gat 343

<210> 22165
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22165

tatgatcttc taataattaa taattcacgc acacaattta acaaactatc aaacaaaaaa 60
 cacttcataa caacaacaac aacccttctg aaattctcaa cacaagtttc aaaaaacaga 120
 gtaaaagaaa cagagcaaaa acacacacac aaaaacacaa acacagacac cttttaagta 180
 ttaagggtgc tctttctctc cccggaaagt ttctccgtcg gcggtggtga ttgaccggag 240
 tgccatggag tctggacgga ttttctttgg tgccctctgct tcaagcggca acaacatgct 300
 ctttctcggc aacactgaac ttgcttttcg aggtcattct ctntctatct ctctntctga 360
 tgatttttat ttaatcttat tacgttttct cttacccttt ntgtggattg aaaanttgaa 420
 actggatatg ttgtggagta gttgttgttg ttattg 456

<210> 22166
 <211> 338
 <212> DNA
 <213> Glycine max

 <400> 22166

 agtgtctccg gaacgatgag ctcttgaagc cgaagcggag gcggatgaac ccttacgttt 60
 ctttgacgat ttttccattt gaaggagttt ttgcagattt caatcgggtga aatcaaaaga 120
 aaaatgaaaa agaagaagat tgcaattttac gggagttgat ttgatgatga aatgagtgag 180
 ataggaaggt ttggagggtt gggaatggag gaacgtcgca aggaggaagg ggctgcgcag 240
 gggtttctaa aaacgagata tttatagagc aggacgcatt gtaatcgatt acaagtaatg 300
 gtaatcgatt acaagaggag gcagcctact ggtaatcg 338

<210> 22167
 <211> 430
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22167

 tgtaatggcc tccaaaattt tagacaagtg gcctctgtat cttaagaagg ggggttgaat 60
 taagataaaa aactttccct aattaaaatt ttaactatgt tttggattaa caatgcaccc 120
 cagttgcccc atcaaatagc taggtcactc gaatgaaact agtgtcctta tctttacttc 180
 ccttttattt ccaataaaaag ataagtaaag aagggcaact gtcataccct aatttcgtcc 240
 agggactatc attcatggat attttgattt tcgctagccg aattgagttg ttcgacgcct 300
 attaccaccc aagacgaaag atcattcgac gttntggtga agaatgcgaa naatacccaa 360
 aagggagggc aaaagggtca ttnntaatcc tttttttgaa ccctagctcg ccagggctag 420
 cctctagctc 430

<210> 22168
 <211> 522
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22168

gccacaacga cgacaaacaa caaagcgata gaaagagacg cgacgaatac caaaacatac 60
 tnaanannna agagggggnnn aatgagcatc naagaacacc nnanagaann nnncgcgccg 120
 caaacanaca ccaggacacg cagcnnnccg aacgctaaac aagaagagna nacacaaaga 180
 gaccagcgga cccgcgggaa acacaaccac ccacctaaca cacancggaa ataacgacaa 240
 accaaccgga acagcgcaca gacagagcgc cagacaagag agagcacaaa agggcaacaa 300
 ccaaacacaa accgaccgga agcgaggagg caaagcaacc aagaggaccc aaccacacc 360
 gaccaaagca cagagaaga aaaaaagaa cagcaagaca agggccaacc cggaggagac 420
 caaaccaaca caaagggcgg cgacaaccaa caaccaaggc aggacaacca acccggaaaa 480
 cggcacggaa caccaaacac acagccaccc accagaagta cg 522

<210> 22169
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22169

tgtacgaata tggcgtaccc atcacatgtg gtactatttg gcggtcgggc gatggtgcac 60
 aacaagttgt ccacatccac aaatcacgta taaaccaccc atcccctgtt gtccacctgc 120
 aactgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca acgggtcccc 180
 atcaatcctc ccaagcttcc ccacattcag gtaattcaac atccaaatca tcacagacta 240
 acaaaccaag caaaaccggg caaaggcaga aaactctgcc caaaattcaa accataatca 300
 cagctttttc tcaacttaaag accccagtga catttccttc gttccaatcc gttaccgtg 360
 ggatcgactc gaaaatatta ctgggagtct ctagaacata tgtatacatt gttaccgtg 420
 ggatctacta gatnacatcc agaactcatt ct 452

<210> 22170
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 22170

ttgcttgcac tcagcaaatt ccacaaccgg taaaatccat ccagtgaagc gtgcattcta 60
 aacgtatcta ggacgaaaac tgaatttttc taattttata gataagaaac atctttta 120

attttttttt tcaattggat gttttcatct aacttctttt gaccattaat tgtttagactt 180
ggagctgaca ttcctattag atgcctatag atgtttggaa gagttttggt gctgttatgt 240
agttcaatgt tttttctagg tagcagtcac gtcgggttat gatagcaatc atttcttatac 300
taaagtgtat gtttagatgg atagcatatt ctctgaaagc ttttaacaact attctatcac 360
catagaactt cctcattgat tgcctt 386

<210> 22171
<211> 317
<212> DNA
<213> Glycine max

<400> 22171

tcttagtttc agatgatgca gatgggttttg taactatctc atgcactcct ctaatgacta 60
tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatgtc 120
tggcttcaac aggggtcatg tctccaaagg ctccaccact ggcagcatct atcatacttc 180
tgtccatatt actgagtcct tcataaaaaat attggacaag aagctgttct gaaatctgat 240
gggtgggggca actggcacat aaaatcttaa atctctccca gtactcatac aggcatctct 300
cactgagatg tctaata 317

<210> 22172
<211> 139
<212> DNA
<213> Glycine max

<400> 22172

aaaacagccg gacaaagcac gcgcgcctta gaacgcagcc gggctggaag gcacaaacca 60
ccacagaaca aagcaaagag gacacgacag cgacccgacc gaaaacaaag ccaaagacca 120
cacccaaaga aggagaca 139

<210> 22173
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22173

$\frac{d^2x}{dt^2}$

<400> 22174

<400> 22175

accgaatgat cggatttcat ttttaacagaa attaacagat attacaaatc acacgatccg 240
 tggaaatata ttttattggt tgtgattagg agagagaatg acttaagtca atgactgaag 300
 cacgtcaaaa gggggtatgg aaagtaaag aaacgagaat aaaagtacac gatacaaag 360
 gtgaccacca ctggtacata gaatgaatag aagagttcga ttcgggtact taccggttga 420
 agactgaaga acaatgaaga acg 443

<210> 22176
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 22176

agcttaataa atcaatctat ggcttgaagc aagcctcctg ccaatggtat ttgaagtttc 60
 atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atatacaaaa 120
 aggtcagtgagg gagtaagatt tttttcttgt gttatacgtg gatgacattt tgcttgcaac 180
 taatgataag gggttgctat atgaggtgaa ataattttctc tcaaagaact ttgatatgaa 240
 ggatatggga aatgcatttt atgtcattgg cattaagatc catagggaaa gatctcgagg 300
 aattttgggt ttgtctcaag agacttatat taacaaattt ttagagagat ttaacatgaa 360
 agattgttca ccaagtgtag ctcccattg 389

<210> 22177
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 22177

gtgcttagtg ctctctctta tctttatagt catagttgct ctctatgccg catggtgctc 60
 ctctcctagg gaggttgctc gagaactaac actcaatcac tcgcttgagt gtatcatcaa 120
 gacccatgac aactgcactc acgctcttga gaagaatgaa gaatctggct gaatatcggt 180
 gttacttggt gacgggggac atcaacatag gagtatgttc aatcggctat cgatgatgaa 240
 tcataaggcg tagggtgtga ggggttgattg attctttatt ccttctact taacataaag 300
 attagcgagt gccaggtgtg caggttgaat acttaaaaat attcatattc taaattctaa 360
 acattaaaac actatcacct ttcgacaaat gtaaaagata acacgaaatc acaatgt 417

<210> 22178
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 22178

agcttttagtc aaggaaagta acccaaaaat gacaaagaat aggttggtga aaaagcataa 60
 caatactttc ctaaattggg tcaaagatac aatattgagt gatgataacg cttctaaaat 120
 gttaaggaag ctagtagatg ggcctaaaag aaatgttata acatggcaag gataacaatat 180
 cagcaagtat tcattctaca tgaaatcaca agatgacaat agtataatga aaaataatgg 240
 ggtagtgcta agggcttaat cccaacactt tgctactaat cttgataaca atccccgtgt 300
 agttttcatg cttactttg gaatcattaa agaaatctag gagcttaatt atgcaaaatt 360
 cattgtctgt gtttataagt ata 383

<210> 22179
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22179

ctattcatct ttttcattct cttctccctt tgccaaaaag aattcaccaa ggactaaccg 60
 cctaaattct ttntgtgtct ctcttctccc ttttccaaaa gaacaaagga ctaaccgcct 120
 gaattctttt gtgtctgcct tctcccttgt caaagaattc aaaatgacac agtctgagaa 180
 ttctcttgat tcttgctttt cccttacaca aaagatttca aagaactaac cgcctgagat 240
 atctttgggt tccccttcac aaaggttcaa aggactaacc gcttgagaac tttgtcttaa 300
 cacattggag ggtacatcct tagctggaca agtagagggt acatctactt ggggt 355

<210> 22180
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 22180

agcttattct atcataaccc ctttctggaa atacatttcc ggtggtgtga acgccttgct 60
 cctgccccct tcctttgtgt gtgctcacc catgaataag cttgttcttg accttccacc 120

aaagctctat aaatatcacc cttgaaagtt gcattcagtg caattcatag ttcatgcctc 180
 ttatgcaaac aagcatgagg aaactacata gttcaacata aactcaggct cagctacttg 240
 gagattctat tataattgca aatttatttc tagttcaata aaattttcta atttaaataa 300
 ataaaatcat ccactgaagt taaatatatg gatatcgatt acaagtatag ctctctttca 360
 ggagtacatt tgctgataa 379

<210> 22181
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22181

ctataaaact cagcttatct ccaggcatat aatgatcgct cttctggctc tatcaatcat 60
 ctctgatgtc tcctttgagc ttagagattc acacatcctt ttttgcctt taagagcttc 120
 tacacagcca tgttgaatca agattgcttc catcttgatt ctccataacc cgaagtcatt 180
 ttcccctgaa aacttctcaa tattggactt tgttgatcct attattcttg atcttgattc 240
 cccacagatg gcgccacttg ttggtggttg tataagttct ggttctctta gaacctgcac 300
 aagataaaag aaaaaaagaa tacacagcat acacgcacag cagagcaaga acccaaagat 360
 ntacgtgggt cgacaatgtg cctacatcca cgggaaagag cagctcatca tcatcacatt 420
 gatcatgaaa ttacaagttc atacaagc 448

<210> 22182
 <211> 389
 <212> DNA
 <213> Glycine max
 <400> 22182

agcttaagcg tcttgttcaa tcaccaaatt cgttcttcat ggtataaaaa cgttcttcta 60
 attgttatta tttgaaatag aagttcttat ttgaagcatt tcgtatgttt taattatttg 120
 ttgtaggatg tcaagtgcc aaggctgcttc aacatgtaag taggatcttt ctttttattt 180
 gttttaatgt gattataatg ataatttatg taagtgcagt taatttggtt atgtgccttt 240
 ttttttaatt tggatgcaga acaactgtgt ttagccactc ccagacagtt gtagtatgtg 300

gtaactgcc a gactgtgttg tgccaaccaa cgggtggacg ggcgagggt accgaaaggt 360
gctcttttat gaagaatgga gattgaatg 389

<210> 22183
<211> 368
<212> DNA
<213> Glycine max

<400> 22183

actaagctca tctcctatct tatacactac cataaagttt atctactttt tcatgaagcc 60
accctaagtc tgatacaaaa ttcaattggg tttattgctt gtattgtgat attatatcat 120
catttattgc tgctgcta at gctatggatg tatacctgtc tgactatgta caaaagaatg 180
gcaatggcct taattttatt tgaattaatc aaaatatacc atgtactagc agtatatgtg 240
tatgtattat gtatcttggc tatatattgc ttggctatat ggggctttct ggtatgaatg 300
atgctttgat atattcgatt cggtttatct gaagaaaaac cgcaagggtta atgataaata 360
tgaaaagg 368

<210> 22184
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22184

agcgccgatt ttttgggtca gataccgtga attgagacat agccctttga ttttcacaac 60
gaacctngtt acgcttgctt agatattggg gctgcccatt tgcttgtcac gactaaccaa 120
ggcagaacga aaacattgaa ggaggtgtaa tcagcccgtt ggtgtgaatg cgacggctac 180
ttgtgtggac gatgaagcac cctgaagctt acctagtagg gatccctgac tgagcccggg 240
aagttgtgcy tgtgtaaag 259

<210> 22185
<211> 283
<212> DNA
<213> Glycine max

<400> 22185

tgtgatgact catagagaat cagactcact tcgtatgaga ctgctcttgg acaatcctaa 60

aaagttattg gcacacctgt cttcaattag aactatgggt agcttttaggt gacagtaaag 120
 tgtgtctatt cagaaagaac ttgtttgcag acttgaatta tagattcact ctgaatttca 180
 tgcacacaac gggtaaaaag tgtatgattt actccattta tgcacttgac tcgatcatgg 240
 tacgttttag gcctataata caaagttacc caactcgata aca 283

<210> 22186
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 22186

agctttcata tgactgcaaa ttacaagttg cccctttaa tataaaagg taataaatca 60
 tctactacag tagtagccat ctaacctcaa aatttttagaa ctcaaccagc aaatggtgcc 120
 tcaactctat tctcctgctc gccgagaacc gacactgcct ccttttcacc tattaattct 180
 accattacca gtctacatct ctgactataa aaacggtgca ggtagatgat tcaaaccggc 240
 ctaacatgta tgccagggtta atcatagctc atcatgacct tcagtttgct cagttaccgt 300
 ctcttcgctt gtgccttctg aactgttaac ggatgaatca cttgaagagg aactatcagc 360
 tgagttagaa tcagaattct ctgtattc 388

<210> 22187
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 22187

caataactcaa gcttatcata ttccctttca accaagttga attctcaaaa tgagttttgt 60
 ttatcaaaat atagagtacc ctgaagtaaa gtcggtctca ctatacaaaa tcattgccaa 120
 aagtctaaaa ctttacaac ttatagaaca taagatttag aaaaagaaca ttgaaaattc 180
 acaacagctt cagatggttt taccacggca agcgggtcct taaagaacta gccttggtca 240
 ttacttgaat aatgaaagac aactaaggaa tgatttttgt aactcaatta ggcaactcga 300
 atggcaaaac ttgagaaatt gtaataaaac caaattcctg aaggattctc taatcctcta 360
 aaacaggagt tgcaattgtt cgggtgttcc ttcggtgct ccacttctcc tgaccatac 420
 acagaatcac aattctattg ttgctcataa ttctcatttc ttcacaa 467

<210> 22188
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 22188

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agcttctagc caaatggact taccttgaat taattccttt gatagccctt ttgagccttg 60
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atataccttaa ggaatttttg agctttggaa ttgttttggg aataagtgtg gggggttttt 180
gtttcattgg acaacttggt ttgttggtga tgcttcatga tgtatttttg gccatacttg 240
atgtacattg tatattggtt aaatgttga catgctgaat gaaatgttgt ttctcaaagg 300
ctaaagagta aaaaaaaaaa aaaaaaattc gaaaaaaaaa aaaattcgaa caaaaaaatt 360
cgaaaaaaga aaga 374
```

<210> 22189
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22189

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ngcaattgca tgcggttatc gatgaagaat ccgtatact gngcctacat ataaaacaca 60
ttgccactct tcccatttta caaaattata tccttactta ttagcggcct ctacgcgacc 120
ctgggtggcc gcacgcatat acataaattg cagcagaatg gggaccatgt cccatgccac 180
attgcttcag aaacaacata cgctaacgc cttctccttc agatcctcta ctactacaa 240
catgcgtgaa tccccaccca aactgccacc cccatataag cgcactctca caatatggag 300
caccttgcca tgaacatata catcctgcgg gaaactaaaa acatcaggag cgaatactta 360
c 361
```

<210> 22190
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 22190

ttgcttttagt caagaagaag atcaataatg agcaattaat atggacctta ccagcgacaa 60
 tggaagggaa agaagggacg ataaataaaa agaagaaaaa gacctttcca tagataaagc 120
 tttggtgctt cgatattgtc ctggcatcac attgacatgg gccgtaaaac aaggatatcc 180
 gatgaaatgt ggagttcagc cttcacata tacattccta gctaattggtt aatgtgaacc 240
 tgccaccacc actacagata atgctaacct gtctatcttt tgcataaatc agaaatctcc 300
 accttttgat gattcctgga ggaaattaag gtgatttcaa atatagggat ctttatcttt 360
 taatgagtga agtc 374

<210> 22191
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 22191

tcattcagta ataaaatagt tacttttgta gaactatctt ccctgaaagt tactgatgca 60
 tagaggaatt tcgaacttga aaacttgcta acacatgttt aaagagttaa cataaactct 120
 agatatatgc cactatggcc agatcaatta tcttctgac caccgatagg agaaaaattc 180
 attaccgttc tccacgacta atcgacgcat gttaagtgtg ggtcaagatc tctgcatatt 240
 tggtcattctt tattcgatta aacgcgtaca ttactacat ggatgggtacc acaactctca 300
 cacacttaca aaaat 315

<210> 22192
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22192

gccgaccaca ctctaagtcc ntatatgatg agttgatagt atacaggtac taccgagacg 60
 tatacatccn nntcttattn nnaagcgcgg acanncttga tggcgatcga acgccctncg 120
 caaacaanna nnaaacgggg ctggcggacc cttacaggca ccaccgcgcg cacgttttct 180
 tgtctttgcc acaaaacaca atcaggacga aagaaagaaa tggacaaccg ccgatcggcg 240
 cgaaaaacac tgactgaaaa cgatattgga taccacagac gtagaaagca ggcgaaacca 300
 aaggcgcaaa aggcgcgggt ggggtgcgca caagctacgc gtgggtcagg gatggcacat 360

cacacaatgc gaggcgcaga cgacgcgcgt atcgcaccca gctggagcac acacaaaacg 420
 aggcgagcgg agccaacaac gaatgccggc gccacagagc agaaaccac gcccatgagg 480
 ataggaaca aggagacaga ccacggaagc cccaccgggc aaagataacc ccgcagggag 540
 acacaccgag accacgagtc catggcaaca accg 574

<210> 22193
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22193

tgtgaatcga tagaccatca cgagtgttca ttgacatgta cncctgtgtc aatggcacgt 60
 attggcgctt ggcatccatt acattcagat ctagctccat gtgcataaag tataaatgtt 120
 tgatcaagtg aaagagtccg aatcaacaca aatctataaa gaaactgaag actctacact 180
 ataccatggc caaagtattt taccacaatc atggtgacca caatgcccat aataagatca 240
 ccactaccct aaagatcaat gcctaccagn cgatcacagt cgtgataatt cgataacggc 300
 tgtgatcaat tcatgaggac cgtgacagat ccataacacc ctatagcact caacgtcaat 360
 gtgtctgac ccgatcacgc tagatctacc accgttcctt atgcg 405

<210> 22194
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 22194

ttgtatgtaa gtaccctacg gagggggggg acgacttggg gaagaacatg agtggagact 60
 atgggctttg catctccatt tccaaatcca ccaagaggtc gtgacaaacc cattgcttga 120
 tgagagggaa gaagaactac tgttgggcaa ggaaacccaa atgagtccaa atctctctgg 180
 catgcgaaca atcacgaaga caatgaagag tgtctttctg cgggtgggag caatcatggc 240
 atgccgccca agtagctaac tagtgacgat agcgaacatc attggttggc aaggagaata 300
 agccaacaga aggtgctaatt tttctatgga atgagaggct gccaaagcca tttgaagtt 359

<210> 22195

<211> 444
 <212> DNA
 <213> Glycine max

<400> 22195

gtgactttta caataaaacg ttatatgtat atgttcataa tttatgattc aatgtcaatg 60
 tgaatttttt ttacaatgtc attacatgat cgatcattaa actcttctta taacaacatg 120
 gtgttatctt tgtttaagaa aatttctcca agttacaagt taattaaaat atcgatgact 180
 aagctttcga caagattaaa gtgacgttgt ttctatcaaa atattgtctt tcgataaaag 240
 atggtttctt gacaaaatta ttatgcacat ggaagaatag agtgctcgca ggaggagttt 300
 gaatttgaat ttgaaataaa agttacaaaa gttagcgaat agggttactt gaagacatta 360
 gacgtcgta gatctaaata attaggaact tgctgtactc gtgtcaaaaa tctataattc 420
 gaacatctag tggtgaaagt ttat 444

<210> 22196
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 22196

tgttcttttt ggaccttgaa caagcaatta actcctcttt cagaaccatg ctatgtgctc 60
 gcgactggac ctttcttcc cttcgcaact tgagttcact attgctaccc catagagctc 120
 cgcaaaattt attccggcca tactcttctt tgcgagccct cttgggtttct tgttcaaggg 180
 ctcttgcggt aatcgcatc tcttcccgta acccggcaca ctcttttcga acgtgtgtag 240
 cggccaactt gaacttctct ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300
 ggacttcttc gtctcttcc ggtgctacaa aactctcttc gctgacgact ttaacttgg 360
 cgagcgcac taaacttcgt atat 384

<210> 22197
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 22197

tgcttaagaa gattgctaaa gaagctagag cttatctact acatacttct ctaatagcta 60

agctcacctc cttgagatga gaagctagaa cttagctaca cacccttat aatagctaag 120
ctcaccccca tgacaaaaaa catgaaaata cacaaaaaag tccttactac aaagacaact 180
cataatgccc cgaaatacaa ggctaaaacc ctatactact agaatgacca aaatacaagg 240
cccaaacgaa ggaaaaacct attctaatat ttacaaagat aagcgggatc atacttagcc 300
catgggctcg aaatctaccc taaggctcat gagaacccta gggcctaccc ttggatctcc 360
agcccaatct acttgagatc ttctacccaa tgcccttgca cgataggatt gcatcagatg 420
attaggatat tttatgcaaa acagggcatg c 451

<210> 22198
<211> 248
<212> DNA
<213> Glycine max

<400> 22198

ctgtgcgcca cctgcactaa tgactcggcc tacgcgactc actgaccgca gtaccgattc 60
cttcgatcca attcggtaac cgagggatcg actccaatat ttgactggac gtgtatagtg 120
tataagccta cattgtgacc gtcgggatct actagcaaac atctagagct catgatgtac 180
tactccctgc ccagccaacc acacacgtgc attttctgca ccaagctaatt accctgctgc 240
acctattc 248

<210> 22199
<211> 321
<212> DNA
<213> Glycine max

<400> 22199

ggatattggc tgagcgatga cattgttgag ctgcggggaa cttaggccat gtacgaatgg 60
cagccacaac atgggttcct tcctcattct catcctcttc atttgcccca gttctctcat 120
tcatcaaagt aggatgctca aatttgctc ttttcacacc cacttcgatc ctttcgctgg 180
cgaagacaaa attcggaag cttgaagggtg cgtaaccac ctttttttca tagtacaaca 240
ctgcgaatgt gtctactatt attatgatca tatacttctc catcattgga ggtgccactc 300
gaactgcaa gactctccat c 321

<210> 22200

<211> 382
 <212> DNA
 <213> Glycine max

 <400> 22200

 tagcttcaat ggctcaatga gcaatgggaa atgatagtea atcaacaaat aaagataccc 60
 ttttctataa gaggctattg tgataaagat ttatatgata tgatccctat ggaagcaggg 120
 cacattttgt ttggtagacc atggaaattt gacaagaaag caatccataa tggcttcacc 180
 aatgaaataa ccctcaccta tggaagcaaa aagttcaaac ttgttccctt tacaccttca 240
 caactggcca gggatcaagt acaaataaaa ttcaaaaggg atgagcaaaa gaatagaaaa 300
 agataagaag aacaaccttt aatggttaag gaggagtgtg aggaggtaag tgtctactct 360
 aagagattag ctaagaagga aa 382

<210> 22201
 <211> 260
 <212> DNA
 <213> Glycine max

 <400> 22201

 atgggcagct caccaacatg tctttctcgc ctgacacgat gaccaaagtc cccttcacta 60
 cgaattttta cttttggtgg agtgtagagg gcacaacttc cactgagtgg atccacgggt 120
 gccacaacag acagctgtag ggggggttaa tatccattat ttggaagggtg acatgacacg 180
 tgtgatggcc tatttgtact gggagatcga tctctccctt aagctcttgg cgagtgttgt 240
 tgaatgcacg aaccaccatt 260

<210> 22202
 <211> 381
 <212> DNA
 <213> Glycine max

 <400> 22202

 agctttgaat aattgtcgtt cataattggg taagtgtttg tttgagttta aggaatcaag 60
 aagtatttgc aacacaccaa aaatctcttg gattaattga attaaggaat gtattttgaa 120
 aagttttcat gtgggggtcat atatcatttt gaaatcaatt ctctctcttt cttggtttat 180
 gataattttt gccattattt ttacatata aggcacttag agaagttatt tgcactaac 240

atattaataa aatgcatatt ttttagtttc ttaatggaat ccacattcac atgtcccaac 300
 ctataatgcc aaagattaac agattcaaca atataagcac aaccagtaga gaaattatta 360
 ttagatgcaa aagcaatagt g 381

<210> 22203
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22203

ttgtggcaaa cttcactgca gaattcataa gcttggtatg tgctaaattc cctgtcaagg 60
 tacctcaa at agtggacaga aaatTTTTCT tcaactgtggg gctagggact aatccttgcc 120
 ccanaaacac aacatgccaa gggccaagta ataacaccaa atttgcagcc tcagtgaaca 180
 acatttcttt tgcacttcca tcatctgttt ccatcatgca ggcatactat tctagccagg 240
 ccaatgggggt tttcaagact gatttttctg ccaccctttt gaaccctttc aactacacag 300
 gaacacctcc aaacaacaca atgggtcacca atgacacana gctgggtgggtg ctcaagttta 360
 acaccagtgt ggagttgggtg ctgcaggaca ctagtattct tggagctgag agccatccct 420
 tgcattctca tggttatgac 440

<210> 22204
 <211> 309
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22204

ccaccacaca tgggaggaaa agaagacaag accaatnngg gggttgactc agcacaacnn 60
 aaaaggaagc aaacgaaaca acgactatta cagagcaciaa gggcagaacg cacaacccaa 120
 aaccacccca cccacgcacc aacagccaac cgacgacata aaggggcgga cccaaagacc 180
 acccaggccg ccacacaaca cgacacgacc aacacccgcy accaacacaa caccgggaac 240
 aaggaagaca cagacggagc aacgacacga accagaagca gagccaggag acggaaacaa 300
 ccccaacac 309

<210> 22205

<211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22205

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agggtcacgt gatccctgat ccntgaatgc aaacccccnn nnannaggtg ttagaganag 60
acatgttttt gactttaatt aaataacaag gggaggtacg gaaaatgtat cccatcactg 120
catcatgcta ttaagataat gattgactgc gacggtttca cttctgacat atgtcgtgtg 180
gctcgtgaac tattagggaa ttgtgagtga tgatacctgt acgagagacg tctagaagac 240
ttcaagagtc cattactatt cactgatggg gacagatatt gattatgcct cgttgttaga 300
tgaattctga catcaagtat agcgtgaaca ttgcggatga catctgagaa cgtcgttttag 360
aggcgatgcg caggcgacag taaattagcg agtcgcgagt tacatataac gcgggggcct 420
tcgatcacia gtctattatg gtaattgccg 450
```

<210> 22206
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 22206

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agcttatttt agagataata atcaccctct agtaagtga atcagtttca gtctgcctca 60
tttctaakat acttctatgg agaccatggt ttcacaaaac tgattttattg tcttcccaga 120
gaacgagagt aataatgcct ttgtaattta aactctagaa acacatgcac gcttgatcca 180
agtctaaaac cgactcttca aaacaagaaa atcttcaggc aacttaattg gtaacccatg 240
atggtttgaa ttctctttac caatataagc tgtattaaat acacaattaa ttttacaatt 300
actagtacaa taatatattt tgaacctact tttcacacaa ttaggagtga agaaaccagc 360
tcgtgtcata ctctgtttac gta 383
```

<210> 22207
 <211> 575
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22207

agagagtcgt ccncttttga tccncatang annacgtaga ctataccac acncacgctc 60
atgcatangg taagtgtaca tacataccaa gctcgtctca ccacnctcat aactagtatt 120
tttgctgatt gcgatgacac cggacattta ttgacgttct cttgcgcgtg cgaatattct 180
agtcctactc caaagcctcc nctaactgtg ctgttatgtg atatcactca tccgatagan 240
ctagacctgt tcaggaactg gtgatcactt acataccact actggattat cggagttcaa 300
ttaatcatct gcatttctcaa catcgtcatt gnactctcaa ctttttacag ggtttgatat 360
tatatgctca tattttcgat agggatatca aactatctaa aggaatctga gttggcatca 420
aaatcgtgaa gaaacgaatc cattatttgc ttacttgaga tatttacgta aggaatttaa 480
gtcctgaatt tatactcatg aactttcttc ttacatatat ttctcgtgatt ctcaggatct 540
catactgtga agaaactttc ttgtgcctct ccacg 575

<210> 22208
<211> 382
<212> DNA
<213> Glycine max

<400> 22208

agcttcattc aaaaactgct ttcaaagctt cttggtgggg aagcataaga tcctagttaa 60
catcctcgaa tttgctgata atactatttt ttttgagaa gcttctatgg ataagtcaa 120
agctgtgaag gccattctta gaagctatga gatggtctca ggcttgagaa ttaacttttc 180
caagagccac tttggagcaa ttggccaatc tgaagaatgg tgttgttttg ctgctgatta 240
ccttaatttt gccatgcttc aattccccct ttgctaccta gggttgcta taggcattaa 300
tccgagaaga aaggtggtgt gggagcctat catttgaaag tttgaggcta ggttgaacta 360
gtggaatcaa aggagcatct ca 382

<210> 22209
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22209

ntngtggaca tttctgactt tcgccagtaa ttggtgttta ttaagatcca aaagccttgg 60
tcaagactca ttcataattg ttcctaataa ggaaaacttg ttgtcacatt cccaggtgtg 120

ctcttcaatt ctgcaagtcc ccgtccctgc aaagatgcta tgatttgaat tttaacatca 180
atgggtatca tcattcagtt gctgttgccg ttgttgctgt ttttcttttc agagaaagat 240
ggttcagtga tgcattggact ggaaagtcta tcttgaacag ccaacctttg tatctgctat 300
caaatctttc ttttataata aggatggagg gaatcgtaaa tgacactctt caatccttat 360
tttgttacct taaataaatg aataactaaa tgtagatgc tagtcacagt agtgtacctt 420
ctatcat 427

<210> 22210
<211> 390
<212> DNA
<213> Glycine max

<400> 22210

agcttccatc aagtgatatc agagcattag agcttcaagt aggtgctcct taaacctcca 60
ttaattttca gctttacctt ctctctatt cttgtttctt catttttctc catgtacctc 120
ctcacatgct ttatgctaaa tgttggtcac atgattcttt agaatttcca ctgattaaac 180
ttgctatatg tcttacccta atttcgtctg ggaaccatcc gttgttgga tgcgaccctc 240
gtttgaccac ttcgaggtat ttggcaccca tcgttaggca atttgtgaag ttctgagaca 300
tgccggaagt caaaagaaaa gcgtcgtaac acaatccgtg aagttccgtg acatgtcgga 360
aattaaaagg aagtgttagt gcgaaatccg 390

<210> 22211
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22211

gaaattaaag atattcaaca tggatgatca agattgtttc tagagtctta ggaagggtat 60
attacatagg aagggaattc ctatttgaag tatcaaaagg tttggccaag aaatttaagt 120
taaaaagctt tattcaagag atttactctc tggatcatca ttaccagagg atgtaatcga 180
ttaccactgg ccaaagatga tttaacaacag ctattaaaat ttgaattcaa aatttgcact 240
gtgtaatcga ttacacatat atggtaatcg attaccagca gtttctgaac attgtaattc 300

aaatgttaga gcttgaatc gattacacac atactgtgat cgattaccag aggagttttt 360
 cagagaacat tctcaacagt cacatcttgt tatctatttc ttaaattggcc atcanaggcc 420
 tatatatatg tgtgac 436

<210> 22212
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 22212

agcttgttca ggaattatct gtatgggttg gatgttgaat tctgggtggt cctgggtgtgg 60
 agatgatggt acatgtttgt gaaccagaag cggaagtctt ttttggtgag gaagccatgg 120
 aaaaacagag cgtttggaat gatttcgtaa atctcagaaa actattggga aatgctggtg 180
 aaaacacgaa tgccacgaaa atataaattt gaatgaggaa tgtagagggc cgtgtgaagc 240
 aacggtcgaa ttgccttgg ttcagtagtg aacgtgctat taatgttaag tgattcgttt 300
 gggcacgttc agatatcagt agttgctaca attcctctag cagacaaatg cccagcttgc 360
 ccctcagttt ttcaaactga ttgcatcca aag 393

<210> 22213
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 22213

ggggcttgcc aaccactgac atccacaccc ggctaaagca ggaactgttg tcttacagca 60
 ctctgcttac actaagacaa cacccaacag tccgggtgag cctgaattg tgcaatgcga 120

<210> 22214
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 22214

ttgtttttaca aaagcagatt gtaacaatga tggaaaactg tgtagttaaa tgaagatgag 60
 atgaaacatg cacaacacct tgacttatat agacacaaaa aacacgagac tagagataga 120
 aacttaaaaa taccagtgat ccaacagcaa ctaaagcacg aaatttgggg tcgacttcaa 180

cattgtcatc ctcaccaatc tgcacaaaaa caaaatacat atcagtatag tctacaaata 240
 ataatatcta aaagtaggaa atgtgatttt aaataatcta gacacgtaca aatgtaaagc 300
 aaatgcagct ttagtatgac aaaagctagc attatttagg agtgaaaatt tgcactgatt 360
 agataacata ttgacatgga t 381

<210> 22215
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 22215

tctcagcttg gcctttgctg atgtcatggt ttcaatttta agttgtggat atcaggtcga 60
 ttttgtgtgt tegtctgcc ataattagtc gaggtaatag aaccactatc ggtctgagag 120
 accaggcgta atagttgata aataacgcac taatgaagaa aacagagctt tcataatcgt 180
 agaaaaatgt ataagtataa tgaacgttat attaacggcc aatttttaac tttcaatttg 240
 cttctttggt attagcgttt gtccgtttcc accatatatg atctattact taagcataac 300
 aaaactatca taaattggat taattgacca cacattatga agcaggccaa tgagaa 356

<210> 22216
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 22216

tgctttgaac atgttgcaag caaacttgaa cagcatcatg tactctcaca aagtaccatt 60
 ctttgcctat caactccacc agaccggatc tagacaaggt aagcagaact tctggacttg 120
 gattggatat tgcaatctgc aagaagaata agctcaagtt gggttggtgga gacattgcaa 180
 acctgtggcg attatttcaa gaattctaac agtagttgaa actttggtat cttattctac 240
 ctgaatgtcc cgtaatttgt actcctgata caagtcttcc aaagcctgaa cagcactaga 300
 atctatgtag gtcacagctg cagtcacac aagtcataac cacatgatta gaagaaagta 360
 gaattatcat cattatccct ttcatt 385

<210> 22217
 <211> 373
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22217

tgcattgtgca cacattaagc gtcattgtaca ttacattctga ctacaattgac cactagattgc 60
ttgacacattg ttcttccaag ttggactttct cgcgctgagc gcgcacaggc acaccaagtg 120
aacggcttaa gttctaacat ttttcagtcc attgtttgtt tactaaaact ctatagaaca 180
agctaaaact ataaaattca ttaacattaa ctttctgaag gcaaaaaaaaa caatcgaaat 240
ttttatcgaa aaccgagcat taaaagagaa naaaatgag ataattgcta tttaatttaa 300
gtgcaaaaac caagtataca taacaatttt catattgtgt agatggaact ttattgctta 360
tattacacgt ata 373

<210> 22218

<211> 387

<212> DNA

<213> Glycine max

<400> 22218

tgcattttagg ttgactagtt cattgacatt cagcaattga aggagatata catctatttc 60
aagaaaagaa aaatcataaa agacagtgtg cattaaaaaa aatcaccttc attggctgca 120
tcaacttgaa caaccattgca tgttctgaag aaggaagaac tggcggaatc ttcatTTTTT 180
tccagtccat gctaactaaa tcagttgatg ctgaataatc cctgataagc acatcaatat 240
tttgtactct attcttaaca ttctttttct tctgagtttg atcaatcacc tctcctttg 300
cattattttt caatgcaatc ctcttatcaa gactcaatcg tttggccttc ttattctggt 360
ttctaaccac attatcacia ttccat 387

<210> 22219

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22219

ntaattgana ttaagttatc taattatgta agttcttgat ttaatcccta ttttctctcc 60
ccctttggca tcaacaaaaa gccaaagtgc ataacacata taaaacatac ataatgact 120

aatcatataca gacattttatt gaaaaatcta aaccgatcat gaagcaaaaa acatgaaata 180
 tccaaattaa aatataaacc acataatcat ataacataat ttatagatgt tcagttatag 240
 taagcaaata gtaaaagaaa tactaaatgt tcaaagtca taatattaca gatcatttgg 300
 ataagtcact agcatctagc agtcctaatt ctcttctaatt gttgaagaag gaatctttat 360
 ttagtgtcta tgagaagatg tctgcaagtt gatttttagt atctacaaat tcataacaac 420
 atcacctggtt agaatatgat ctctaata 448

<210> 22220
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 22220

tagcttcaga ccaaagcaac tcaaaatcta ggtatccaaa acccctcaat ttaatggatt 60
 ttcaaggttt gagaagtga attgagaatg aggtaaattt ggagcaaact ctcacctcac 120
 acaagtctat aacatcaatt taaacttgct caaactggat ttacacctaa aattccaccg 180
 aatcaaaatt tgactcctca acaccaat ttaccctaga aatggctctt tgttcacttt 240
 ggtcatttgt ttttctctct agcacagccc aaactttctc ataagtccta aatgacattt 300
 caagctagga ttaactcact ttaacctcca aatgccacta aatccagatt tggccttcca 360
 actctcaaaa ctcactc 377

<210> 22221
 <211> 170
 <212> DNA
 <213> Glycine max

<400> 22221

gaacgctcga ttgactttta tgattattgt agccaaagat atttcgatta cttcattatt 60
 atttttcccg atattttgaa tattctatta actttccgct tgttgtgggt taactcgcca 120
 tgaccgcgct gaatgatcgg ctcgattttg ttgttcgagc gattaatcga 170

<210> 22222
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22222

agctttgatg gtgttgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60
 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120
 cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180
 atcaagcctt gcctcacaat gaaagggttc aagtcattca aggcacatgt aatcaattac 240
 caatacatgt aatcgattac caatgggttg aaagtgtgta attgattaca catcatatgt 300
 aatcgattac cagagactct gaacgttgag aatttaaatt ntaaataag ggtcacaact 360
 gttcaagaaa aacaactgtg taatcaatta cac 393

<210> 22223
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 22223
 agactcagct gtttctatgt gctttgattg ctgtattcga tgattaatcc ctgtacaata 60
 ggctcgttta aaatccattg gtcagctct catttcaactt aatttggctt tacgttatta 120
 cttgtctcta tcggtccttg ggtgggggct gccatatacg gaattggaag gaggattgga 180
 gccatccctt gaccaatttg agttaagaag aaagggtgcca accacgttat gagctattgg 240
 actaagactc actacaactt gagtgaatca ccaccgag 278

<210> 22224
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22224

agcttggtgc taaaacatgt ccaagggttc taaaaaattt taactttgag gtttaacaac 60
 gtaatccgct acaaccaga aaaacataat acccagaaag agggagcgca aggcagcaaa 120
 aaattggaat tcgtgaggag ataattcacg tatgttgaga tagagagaga gtcaaagaag 180
 cataccatgg cgaattgggt catactcatg tcgaaggatt gaacaaagtc aaaggctttg 240
 ggggtttagg gttcccgatc acataaattt gaaagaagta tcctactctg cacttcagct 300

tcagacttgt tcaatcgacg ggagttgccc cttctttttt cttttcattt atttatgaca 360
actntttntt ttattttcttt tttta 384

<210> 22225
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22225

cttattaaat tagcgtgtta aatatntttt aaaaaagggtg gcgctcatgc agtttaagtt 60
cctctgtaaa cttggtggaa aagtggagaa attattgttg tgtaagtttg ccagacttac 120
cctcatgaat caatgggttaa aacttagaaa acccaaacgt actgaattag taagggtaaa 180
aaggatattt tattaaaaat ctatttcttt tttttcttct ttctttcaaa acaaacttta 240
taatattatt ttcatttctc ttaaaccaaa caattcatat tttcatctct tttctttctc 300
tcacctactt attttcactc caactatttc ttatctctag taaacaaagt ggtcatcttg 360
tatagagaaa cttcgttggt ccataatttc aat 393

<210> 22226
<211> 380
<212> DNA
<213> Glycine max

<400> 22226

ttctattatt aacagcttag atctagtgcg ctgaactatg tttaatagca gtttgattaa 60
taaaacttag aacagcttat gtttagtttt ttataaaata attcagtttg taatagttta 120
attcattttg gtattaaagt agttcacaga tcacattaat tttttggaca cccctaaata 180
ctttccattt gataatggca taatatatgg gagaatttac ataactcatg aatgatactt 240
actaggccta ctgcaatgtc aaggtgatac ttgcgtcctg tagtgtgcac tgggtgcacca 300
cgactagaag tccgggttaaa attatcattt atcacatcac ctactatgaa tttagaagaa 360
actcagtata aatgctaaag 380

<210> 22227
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22227

tgtttgacta ggctattatg ctagagagtt ggagttttct aagtttgaca aatgagaagt 60
gtagtttcta aattattttg atatgttgaa atgaaccata ttttgtagta tgtgcttctc 120
cacaaccata tcctatatta gcaatgtcct tgagactagc attagctgct gcttctaata 180
ccaaatccac acttaaaaat attgacaata cagttgatga tcccttgaat aaataatgaa 240
catagatagt acatatagaa tcttggtcct tggaccattt tttggtgctg ccgatgtttc 300
atagaatcat gcaggatgga agcagganag ggaaaaggtt acttagctag ctagatatta 360
tgccagacaa cctaganatc tgctagtaaa gttccacaat taaagaaaaa taaatattag 420
tattcaagtg atgaataggg 440

<210> 22228
<211> 526
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22228

ccccaccgag agacacaagt agagaagaag gaagaggaga gacaacaata ctaaatanntn 60
ancaggcgtn ncctgagcat cgagacatcc aancnagnna aaacctagga aacgcatcca 120
aagcacaaca ctattttact tctaacgcac acaaaccgag aggaggagaa gaatggcagc 180
accgagcgac aacacaaata caaacagcac caccgagag aaagcgcaca gaaaacagag 240
aaggcccgac gaaagataac aacaacgcag agtggcaaca ccagaacaaa aaaaaacaac 300
gaaaacaagc ggcaagaagg ggccaccgaa gaaacgcgca ccagagcagc aatagaaccg 360
agcgaaccaa gccaaaccagg gcgcacaggg cggccaaacc ggaaagagcg caaaaacggc 420
agcagcccga caatgcagcg gacaaacacg accaggacga cccgacaagt ccaccacaga 480
gaggcgacac ccgacgcgaa acaacaccaa aacgcgacgc gaagac 526

<210> 22229
<211> 734
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 22229

gctgcgacgt acacnttttg atccttcgta tgaccccttc gaatacctca caanaatcgc 60
ggagatactc acgagagtng cctactgaaa ctagnaaaca gcggtttgtt gaatatcttt 120
cacacattga acacaagggc gngatctgga gggtagcttc gttacaacaa atcagcggcg 180
tggtcatcta gctatgtaat ntntctatct cactggcagt gatcgtgcta gtgtacgtan 240
tgtantagta ctaatcgcg gtgtagacgt gatcgtagat atatgagcat agaacgacta 300
tgcccacggc tctcgagana ttgcgtatnt gtagcacgcg cttgtcgagt atacagcgg 360
gctctgataa nctatgattg tcgtangcgc tgcgccattn tnatcgagac taanactcgt 420
ctcngccggc acgcnngagt gagagtatat agtcacaccg cgcgatacac gcgcgactac 480
ggctctgtat atatatggta gtgatgcgtt attctgcgcg ctacagtatn ttaccttgta 540
cgactcggcg tgcttgccg ctgtctactc gtnagagtct caacgatcgt tctgcgacag 600
tctatctcct acgagtcaca catcatnca tgagtgcgac cgcgatgacgc tgatcatgta 660
tactacgcat atcgnanctg ctgccatgtg acacgcnctc gtgncttccg catgctcgcg 720
cataccgcgc gcgn 734

<210> 22230

<211> 384

<212> DNA

<213> Glycine max

<400> 22230

tatctttag aatggctaga catgatacat gtcagggttt ggtttggttc aaggataaaa 60
gggatacccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaattttatg 120
caaaactggc catgcatgca cctacgtggc cgctcaagtg tcaaattttt atggatcatgt 180
gatgctaggg ctcaggatcc atttctctta ttttaaatca acccaatggt tccaaaatat 240
gttcttttat caatttgc attcactcta gtccatttcg ggcgtccggg gaaatttcac 300
agcattcacc cttcaggtgt agacacattt ttcaaaaatt gggtatgatc aatgaaatct 360
tttttttcac agaaaagttg gaaa 384

<210> 22231

<211> 462

<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 22231

cgggtacgat tgatccctta tacnttggaa ncacnaccct tcaaactcac gcattggctt 60
 atgccgaaaa ccacttttgt acattttttg ncacggcccc gcccttata ggggattgtc 120
 actatacgcg cctccactgt caagattata cncctagcgg aacaacagac cataaatatt 180
 tcctgagctt acctatagca tttggatata aagacaagaa cgcagtaagt tcattgtatg 240
 acattagcaa ttgtgcctat acgactgggt tattcgtagg aaaatcttct cgctagagac 300
 tagaatcgat gccagtactt tcggccacgt attaaggggg ggttaccgag agactcacgg 360
 tggtcttgac gcgatgggac ctttggccaa tgggtctagcc cggcgaggga ttcttgaca 420
 ccctggatgg cgcgggtaac aacatggggg acggcgctta cg 462

<210> 22232
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 22232

agctttctta agaagattcc taaaaaagct agagcttagc tacacatacc tttctaatag 60
 ctaagctcac ctcttgaga tgagaagcta gatcttagct acacaccccc tataatggct 120
 aagctcacc ccatgacaaa aaacatgaaa atacaaaaaa aattccttac taaaagact 180
 actcaaatg ccccgaata caaggctaaa accctatact actagaatga ccaaaatata 240
 aggcccagac gaaggaaaaa cctattctaa tatttataaa gataagcggg ctcatactta 300
 gcccatgggc tcgaaatcta ccctaaggct catgagaacc ctagggcctt cccttgatc 360
 tctagcccaa tctacttga gtcttctacc c 391

<210> 22233
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22233

actcaagctn tcatatgact gcaaattaca agttgcccc ttaaataata aagggtata 60

aatcatctac tacagtagta gccatctaac ctcaaaattt tagaactcaa ccagcaaattg 120
 ttgcctcaac tctattctcc tgctcgccga gaaccgacac tgcctccttt tcacctatta 180
 attctaccat taccagtcta catctctgac tataaaaacg ttgcaggtag atgattcaaa 240
 ccggcctaac atgtatgccg ggtaaatcat agctcatcat gaccttcagt ttgctcagtt 300
 accgtctctt cgcttggtcc ttctgaactg ttaacggatg aatcacttga agaggaacta 360
 tcagctgagt tagaatcaga attctctgta ttctgctcac tgctttcggt ttcatttttt 420
 acgggcttct gaaccttagg tttgtgctng ngaattctat taatact 467

<210> 22234
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 22234

agcttttttt tattagaaat ttttctaaaa tgtttatggg gtaaaaaatt ctctattgta 60
 ttatttaa atataaattac cttgtgccag aaatgtaa atataccttac ctataagact 120
 atagcattta atattttatt taaagaaata cagtaacaaa cacctatatt tttttattga 180
 gaaaataaaa taaaaatata aaaaaggacc ctaaacacgt gcaaattgaa cacctatagt 240
 attaacttgg aagggtggaca tgaatgttta aagtagcaaa gtctagcaga taaattcatt 300
 atcctaagaa atagcctaca aataccctag cttcttaatt agctaaaaga tcaatacaaa 360
 aattctcttt tctaacaagg taattaagat 390

<210> 22235
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22235

atacaaaactc aagcttaacg atctacagac aatgcactcc anagtgtcat atttaatnga 60
 gttctcatat atataaacc atcaataaaa gtaataggat cagtagttac tgggtgaata 120
 ttgggtatgt tgcataaaat ttcaaagaag gaacagggtta aaaagcagga ctggtagaag 180
 catacaggga aacatcagct aaaatcatgg gaagattttt aaacacaagg ttttcttgtt 240
 atgaagatga cactgaact gataatttgt gaaaaccagt aaaagaagca atgctgagct 300

ctgagtcac atgtaagtag ttacagacg cattgtgctc catgggctct aggaggatac 360
 agatagagtg aagaaagtat caatgtttta gacgtgcaga gaactgatga gactcaagta 420
 gcatgtcaag aatcgaggta tcgtgaaaca cagcaagatg gtcttatt 468

<210> 22236
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 22236

agcttgttct tgaacggtag atgtatcatt tcaacgagtt gtgcgtacca ttaactctcg 60
 agacatcact atatctctct gcacctggct cactatacaa agggatgatc atcggggata 120
 tgatcctatc tcggactact gggaaactca tcgttggcca aacatcgaga gagtcagcgc 180
 tgatacgaca ctggcttgcg aagtgaaca gattcattcc gccattcttc aacggctacg 240
 taacgatcaa tttctgtctt tgaattatat tagggatgag atggacgctg cttacactcc 300
 tgatcttcca ctgtgtaaga atgtaggta gctaagg 337

<210> 22237
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22237

ctcacgcttg tctccctagg caggaccatc aaccatctag caattcttca ttccttgtca 60
 gcttcctttc tccctttctt tcttatacgt agtcttatgg tgtacctctg gcttctgtat 120
 ttggacctct gggttgtgtt ctctgttaac tgccccctgt tctcagctt ttgtatcagt 180
 attccgtatg gtggtataaa aattagaaca aaggagcat aatgctgttt gtgcttatta 240
 tgttgtagtt atgaattgta taatggtttt ttttaagagt gtctattatg ctaatgaaaa 300
 aggatacgtt cactgcacat tcaaaattca tttatgttaa tcactaaata tgcattataa 360
 tattcataat taaattccta tgctgtcata tagtgcctat ccanagtgat ggatgatgct 420
 ttatttctag cttgggc 437

<210> 22238

<211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22238

tagcttgagc atatatgtca tatgaaccaa gcttggttaa aatgtggtaa acccaacaaa 60
 aacaaaaatg aagatgggtc tagttgtgtg gttgcgcaaa aaacctcggc gacagccaat 120
 gaaggctcac agttgcgacg gtgttcaccc gtgaataaag caaagcacgc cctcaggtgg 180
 aaggaggtga ttccaatgta acgctcacca gagatgcac acgcatcgtg tgcgtcaact 240
 tctcttgccg ttgcgtgggg tcaactgtggc ggtgtgttga gttggctgcc catgtggatg 300
 gcgtggcatt cttganaggt cgttgatgca aaccgataag aggggtggcac actggttgcc 360
 aaacaagccc aatagtgggc acgag 385

<210> 22239
 <211> 424
 <212> DNA
 <213> Glycine max

 <400> 22239

tgttgaagga gaatagataa ggagtttatg aagaggttgt ggtcacggca gtgtttggga 60
 aggaagaact ccaagacaaa atcaaaatgg ggataagaag aagtccttag aggaatagcg 120
 acggcagaat gcaagtcaaa gatgttgccg tggtagagaga gaggatattc ggccttggtg 180
 aaggcggtta tgtccatagc aaaacagggc ttggcagttg tgaaggccgt accgacaatt 240
 ccttgtccgc ggaaaagggtg gtgctgagag catgcctcct ggaaccccaa tagctggggc 300
 tgaccatccc ccacaaaaca cgctctgtcc acaatcgaca catagttgtt ctcacccctt 360
 gaatgcccac aatccacaca tagttgttgg acgcaaggag cccatgtcag atgccaaggc 420
 acat 424

<210> 22240
 <211> 352
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22240

ctagacatga tacatgtcag gttgggttgg ttcaaggata aaggatacc ccacattatt 60
 tccatgacac aaatgcaaaa atgatgattg gaaatttatg caaactgggc atgcatgcac 120
 ctacgtgggc gctcaagtgt caaattttta tggcatgtg atgctagggc tcaggattca 180
 tttcctctaa tttaaatcaa cccaatgttt ccaaaatatg ttcttttata aatttgtgca 240
 ttcacatctag tccatttcgg gcgccggng aaattacaca gcattcaccc ttcaggtgta 300
 gacacatttt tcacaaattg gttatgatca aatgaaattc ttttttcaaa ga 352

<210> 22241
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22241

ttgtgcttta tgcttaanag ccacacactg ttcaatttag tgtcatggga caccaccatg 60
 ataggcgaat gtaatgatag gcgcagttaa tgttgggatt ataccatcgg ggaactagag 120
 gttcatagat ctttctggg cttactattg ctatttggtt atcaagaaag tatggtagta 180
 ggtaaatgta tgacattgga attggggcaa ataggactgg tttcttttct gggaaatctc 240
 ttctgggtta gtgttttagt taggattggg agtagtggtt ggtctagggt gtataagggg 300
 tggattttgt gggatgtttt ggggtggtct ctgtggttga ttgggagctc ttgggtcgaag 360
 gggatattng cagggggagg gttaatatg gtcgagcagt ggtattggtg taggggatac 420
 taatacatg 429

<210> 22242
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 22242

ttgcttgaga tgaggaagtg ttgaagggtg aaacttctg cttttattgt tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca ggagacctg gggacgtcag gtggggtgct 120
 attgccccaa accaagcttg accaatccc acccaacccg ggcatagtca gttagtgaga 180
 acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaaag gaacaaagac 240
 cacatagcaa ggaggcttgt ggtggctggc cagctgtgaa ctttgattga tatgtgggtt 300

atggcctctg gtaatcgatt accaatggtg ggtaatcgat tacaaggcta agaaaatgaa 360
gacaggagggc taagatgggc tctggt 386

<210> 22243
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22243

tctttgagaa aacttccttg agatggttaga gcttatctac acacaccctt ctcagtacta 60
agctgacctc cttgagaagc tctcttaaga agattcctaa agaagctaga gcttagctac 120
acacaccttt ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180
cacccttat aatagctaag ctcaccctta tgccaaaaaa acatgaaaaa aacaaaaaaa 240
gtcgttgcta caaagactac tcaaaatgcc ccgaaatata aggctaaaac cctatactac 300
tagaatggcc aaaatacaag gcccaaacga aggagaaacc tattctaata ttacaaaaga 360
taagcgggct catacttggt ccatgggctt gaaatctacc ctaaagctca tgagatccct 420
anggccttcc cttggatctt tgcgccaatc tac 453

<210> 22244
<211> 384
<212> DNA
<213> Glycine max

<400> 22244

tagcttctat ctaaattggac ttaccttgaa ttaattcctt tgatagccct tttgagcctt 60
gtttcccttt ccttgttttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120
catatcctta aggaattttg gagcttttga attgttttgg gaataagtgt ggggggtttt 180
tgtttcattg gacaacttgt tttgttggct atgcttcatg atgtattttg ggccatactt 240
gatgtacatt gtatattggt taaatgttgg acatgctgaa tgaaatgttg tttctcatag 300
gctaaagagt tctaaaaaaa aaattcgaaa aaaagaaaaa gaacagcaat aaagttgagt 360
gaataagatc ttaaattggca caag 384

<210> 22245

<211> 446
 <212> DNA
 <213> Glycine max

<400> 22245

gacctataaa actcagctca catatcagca ttaatttttaa atatcatatc taccctaaac 60
 caagaaaaca gggcagaggc agaaaactct gcccaaaaca cactcacata ttacaacttt 120
 ccttactcaa ataccccagt aacattctct tcattccgat tcgttaacag ttggatcgac 180
 ttgaaaatth tactggaggt tcctagtaca taagtctaca ttttgaccgt tgggatctgc 240
 tagaaaaatg tccagaacct aatatgtact acctttccca taaccagcaa tgcacaagca 300
 ttttctgcac atgttgagca attctgctgc acaaatttga cagctttttg ctgcacaatt 360
 tggcagatth cgaaattcat cttaccacaca tccaattttg ctcagattgg atcctacaag 420
 tgctaaatca tgtataaatc atatth 446

<210> 22246
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 22246

agcttaataa atcaatctat ggcttgaagc aagcctcctg ccaatgggtat ttgaagtttc 60
 atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atataccaaa 120
 aggtcagtgaggagtaagatt tttttcttgt gttatacgtg gatgacattt tgcttgcaac 180
 taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240
 ggatatggga aatgcatttt atgtcattgg cattaagatc catagggaaa gatctcgagg 300
 aatthttgggt ttgtctcaag agacttatat taacaaattt ttagagagaa ttaacatgaa 360
 agatgttcac caagtgtagc 380

<210> 22247
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22247

cgacgagggt nccnnttttg aaccttagtt agatacgttt gactacgcta gacatacccg 60

ngacactcta gaatactgca tcttagtgct acttcttatac ttttaatcat atgtgctcta 120
 tatgctgcat gagctacgtt actggtgact tcgtagataa ctaacactca atctcttccc 180
 tgagtgtatt actaaactcc aggacaaccg caatcacgca cttggaagaa acgaagaata 240
 tggcgtagca ttgttgttac ttgtgaacat gggacatgca catattagta tgtctaatac 300
 gcaggaatga taaatgaaaa tacttaaggt gagaggtag attgatcctt tatgcttaat 360
 actaaataaa gaataacgag tgaatgcgta aggatcgaag attttaatga ttaccattca 420
 aaagctaatac atgaaacatt aaacctttaa catttatcat atgcatctga acccatgtaa 480
 gatgtgactc tcgattttca ccattcan 508

<210> 22248
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 22248
 tatgcttgag atgaagatgt gtcgtagggt gaaacttccct gcttttattg atgaccacag 60
 agtggtagct gtagatatgt accggggggtc aggatacctt ggggacgtct tgtggcggtgc 120
 tattgcccac atgcacgctt gaccaatccc gacccaaccc gggcatagtc cgtcagagag 180
 aacctgtgat gtacctatgc atgctagctc ctggcagtcac acggatacaa ggaatgcacg 240
 accaccaagc agggcggtct gtgggtggctg tccagctgtg aattgtgagt aatatgtgga 300
 tcgcggcctc tggtaatcga ctaccaacgg aggggtgatcg attacaaggc ttataaatga 360
 atacaggagg ctatgatggt 380

<210> 22249
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22249

tgcttgtgga gcttctatgg aggctgtatc tttgagcttc aatggcgctcc tttaatggtg 60
 attttccacc atggagatgc agcggaagac aaaggacaat aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aagaatgagc ttcaccacca agatgagcct tggataagaa 180

gcttggagaa gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240
cacgaaattg aaggaataaa agaggtatag aagtggaact ttgaagtatg tctcacaaga 300
ctctcattca tcanagttac aacaagtgtt acacatgctt ctatntatag actangtagc 360
ttccttgaga agctgtcttg agaaagcttc tttgagaaaa cttccttgag aagctagagc 420
ttatctacac acacccctct cata 444

<210> 22250
<211> 384
<212> DNA
<213> Glycine max

<400> 22250

agtttttggg tatgaaatct agcagaacgt taattaataa tgtaactgaa tacacttgct 60
tatgttggac aggtgacaaa caagctcttt cagcttagtt acatatcagg agatgttgaa 120
aagtttgcaa caaaaatgct gctttctgct gtagaccatg aagtttcaga tacaggtctt 180
ttgcaatctg gacatactga acaaatagct gaggcagagg tgttgacta tttttctcgt 240
gtcatttctc taattaatgt tccttgatg aattgatgtg cagagttcta atatattgga 300
ttgagttatt tgattctgat cttgttgcta ccgtgtccca gaataatctt gtttctcata 360
aattctaatt gactcttgct agat 384

<210> 22251
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22251

actagttgat atggatcttg agtgccaaat taacaaagaa aacgaaatca tatttgagat 60
aagatctagc ctgcttcatt cattctactt actacatatt tataccgaat attcactata 120
ttttgactac agatcttttag tacaaaatgg gtgttggcgc ctaaataaat tacntacata 180
gcggagtggc tacttagctg aatctgttcc acgagctagc ggctcctaac taccttggtg 240
atagcttttg agctcttcag acgaagacct gca 273

<210> 22252
<211> 306

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22252

cccacacaag ccgcaaggaa aaaaaaaggc acgacaaccc cnnggagggt tgagctcaga 60
ccanaanagc ggcgcaggcc cgaccacatt aatacaaaaa caaggggcca cttcgcaaac 120
accaaggacc agaaaggggc aacgacccag gcacacgggg cgcaaccaaa aaaccggcca 180
accgcacgca gccaaaaacg aagccacaaa acccaaaccg cgaagaccga ccaccacggc 240
cgccgacacg agaaagacgg gaggaaagac cccccgccgg ggaagaacca acacaagacc 300
accccg 306

<210> 22253
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22253

ggggtcaatg atctgtgacc gtgaaccgca nccccgaaca accgcttagg ccgacacctt 60
atggctttgt ccttaagagg gccttggggg acaatgccac atcgccgcgc ctttctcaat 120
agggctcgcg tcgatttaaa aacgcccgcg gacagtcaca ccggcggggc cttgaaacta 180
ccggctgtcc cgagaatagc gtggcccaca gaatgggatc gacttccgaa aaaagcggcc 240
gggcttcacg tgaactgaga gtcttacaac acaaccgggg gctgtagata aacgacggag 300
agcaaaaggt taggcccgcg gaaccccgcg cccgtggtct cgcgaactct cg 352

<210> 22254
<211> 388
<212> DNA
<213> Glycine max

<400> 22254

agctttcatc tcccataagc tgttccacct gaaattttga gaacaattag ttaatattag 60
gactgaagaa agggatgctt actaaagata cattattagt aagataggag taaaagaaat 120
acaataatga tgagttaagt tactaaatta gaatatccaa tcaatgattc gtattttcat 180
gtctatagca tacagaatth catagttcag ccgaaattta gttcaaacag taataaatth 240

[illegible]

tggggaagtaa	tgctganaac	aataataaaaa	ataaattttg	gttngtgttg	tagagtgtgt	60
aaataaactt	aacggccaag	attctgagct	tattcagaag	tttgagtggg	gaacgtaagc	120
acacactgca	atgctaagtt	ttggcatata	atataataat	aacgaaagtg	attaaaaatt	180
ctggtaaaaa	tcctaagctn	tagaaaaggc	tgagaacaag	agaaaagcca	aagggatgag	240
gaaaagctga	tctgaaggaa	attctgttct	gaaaccaca	ctcagtctct	ctctctaaaa	300
aataaacact	ctcttttctt	ctctagaaaa	tagagagaag	tgaaatgagt	gtgttgttta	360
acgagtgtct	tattggaatg	gtaaattacc	gttgcacgct	ccctggtgga	cgcggttact	420
actctaccat	gacatgctgc	ccatg				445

agcttggaca	tgtttagaag	aatgtacca	aatatcatgc	ttagcgtgca	aagaagggta	60
tgtttcttac	tttggctctgt	tctgagaggt	caatttagct	tcagtacctg	gaaacacttg	120
gtgggttagat	tctggtgcca	ctaataacat	cagtgtttca	atgtagggtt	gtctaagcta	180
ccagaaacca	attgattctg	aaagatggat	ctatgttggg	gatggtaa	cggtggaagt	240
ggaagctata	gagcacttta	gattatttct	atgtactagt	ttttatttgg	atttgaaaga	300
cacttttgtt	gtaccgtcat	ttagacggaa	tttgggtttca	gattcttatt	tggaacaaatt	360
gtgttatattg	tgttcatttg	gaaacaatgt				390

<210> 22257
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22257

tggatntgca aagaaggagt gttgtagatt tcgcagtttt ggctaagcta aaacttttag 60
 ctttaaataa ttttcgtcaa acttgggtct gcatgaatta gctcaagcta aacaaaatta 120
 caacaagctt tctgaagctt aaagagttaa gtctcatatt ggtttaatca attatagttc 180
 tactttaatc gatttgagac aatgactgat ttttcaagag tctctggttt aattgattac 240
 caggtggatc aatcgattac ttctttcttg ttaaattggt caaagccgaa caaagaacac 300
 tntaattgat aacttaggtc atctaatacga ttacattggt cttgagtggg tntctagatg 360
 ttggatgaac actntaattg ataacttagg atatgtggga cactctacaa gttacacatg 420
 aggaacaac tgatgtcaaa agatctagga taaatactct aact 464

<210> 22258
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 22258

agcttattat gagcacatgt gcatgaagca aagcttgggc gaagccagcc accactagta 60
 ggatcatgag ttctgcagg gctctcggtt ctagatcttg ggacaatttg atgtattgaa 120
 tgaaaacatg gacaatactt aacttgtttc agcttcttac ttacagaatc aattgaaaca 180
 gattggcttt ccatatcatt aaatttagca agaaaaccca agtcactgcc attgtgccct 240
 ggaaaatgaa gagttcccta tattagaaaa ggtatgctag tacaagacat gtattataat 300
 aactacaatg caactttgga gacaagctct caccagcaca agtgcccagag ggcagccatc 360
 catgtttctg cccgtgattt gatagtggga ga 392

<210> 22259
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 22259

nttgctagag tggatgtat aattntgact aatcttatta tgatgttctt gttcttatgg 60
aatgtttcag gtcattgtat ttgatatgga ggttaatggt gtccattaa aggttagtgc 120
tttctcacga taagtgcatt ttttttagtt taggttctaa gtataaagaa tataacttgc 180
tttcttttag ctctgttgct tccatctatg actgggttatg aaatggaaca tgcacaaatt 240
ccattctcac tttttttcag gcttttggtg atagtggagc tcagtctacc attatatcaa 300
aaagttgtgc tgagcgtctc gggatgata aagttgttag actggaatag gctttcaaga 360
catttataat accatataac gattaaattt attaggtggc tcatttgctc gcctatgaat 420
ntactcgtac atg 433

<210> 22260

<211> 396

<212> DNA

<213> Glycine max

<400> 22260

tgtctatgca agcttataat atatcgatac gctcgaaatt aaacattgga aactctcggg 60
aaattcaa atgtcataact tttcacacgg atgtccgatt cgggcgcata atatgtcgag 120
aggctcgaaa ttgaacaacg caagctcttg agaaattaga ctggtataac ttttcacacg 180
gaagctctcg tgaagtccat atggtcataa cttttcacac tgaggtccga ttgatgttta 240
taatataatg atacactcga aattaaacat cggaaactct gtagaaattc aaatggtcat 300
agcgtttcac acggatgtgc gactcgggag catgatatgt cgagaggctc gaaattgaca 360
aacggaagct ctcgagaaat tcaaattggcc ataact 396

<210> 22261

<211> 467

<212> DNA

<213> Glycine max

<400> 22261

tgaatcggac atccgtgtga aaagttatga ccatttttat ttctcaagag cttccgttgt 60
tcagtttcga tcctctcgac atattatgca cccgaatcgg acatctgtgt gaaaagtcac 120
gatcatttga atttctcgag agtttgcgat gtttaatttc gagcgtatcg atatattata 180

accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240
 ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
 ttatgaccat ttgaatttct caagagcttc cgctgttcaa ttctgagcgt ctcgatatgt 360
 gatttgccctg aatcggacat ccgtgtgaaa agtatgtcca tttgaatctc tcaagtgett 420
 ccgttgatca atttcgagcg tctcgacata ttatgcgccc gaatcgg 467

<210> 22262
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 22262

tttcttacac ttttctactt tcctcaagaa tttcaacctc tttctcactt agacttttca 60
 gatttgggag ccaagttatc ccttgcgttc tagacttcaa ccacttgtga tagccatcga 120
 tgacgccatt gctacttccc ctaagctcct tatcttttct tcccactcta ttccatgctt 180
 tacggatttt ctgaagtatc ttgcgattag cttcattaag acctcgcgcg atgaaaggcg 240
 tgatgatttc ctccgacggt gcacctctca tagggtagcc taactgtctt atggccagca 300
 tgggattata attaatacaa cctctcgtcc ccatcaaggg gacatttggg aatccctcac 360
 acgagcataa cactcctacc 380

<210> 22263
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22263

tcaacttatg tgcattgaatt atgtgttatt acgattgttg ttaagaagtg gagacaatat 60
 ctgctcggtc aacagttcac catttttaac cgatcattag aaccttaagg agctcttgac 120
 tcaggtcatt caaaccaccag agcaacatat gtatttagcc agactcatgg gttatgatta 180
 ttgcatccaa tatcgggtctg gtaacactaa tttagtggct gatgctttat ctggaagatc 240
 tgagaaaaca gaaggtacca tggtattatt gtcggtgcca tgcttggcat ttttggaaga 300
 accgaagaaa caattaactc aggaagcaac tttcattgaa ttcagacaga acataagggc 360
 ccatcccgaa acattccatg gatattctgt ttcanatagg ataattttgc atggaaattg 420

cattt

425

<210> 22264
<211> 382
<212> DNA
<213> Glycine max

<400> 22264

ttgctttcta tttcatttca tgagttctat ttatgttcat caacacttta taatgattga 60
tgccactggc ttgaatttgt attcatttag aaaaactaaa ttgcaacttt cgtatttgaa 120
aaattaagtt gcaccattta tatccatgtc tgctctgaaa catattggct ttcattctta 180
catgtgcaat gatgagtgtt gcttatctaa atgatatagt ttctaaacat ataatgtatc 240
catttgcacc atctagattc tgttgtttag ttaattgtat ttatatatttg gtatataccta 300
actgacattg gtttgtaatt ttgaccgaga ccactagact acactaataa tagtgtctgg 360
cattacaagt atacgtttgt cg 382

<210> 22265
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22265

gcagaccggg tgatccctgt gataccatga nccccttgaa ccccaanact cagcgggtgca 60
agcgctcata ataacgttta tgtcgagttt tacaattggt taagacccaaa ccgcggggtaa 120
gggggttctta aacgacacta gcgaaaacga gcaacagctc caaccttgat gccctcaaatt 180
gctctagatg tggttcagct aacctccag caaccnact tacagtgcac agacctaaaa 240
tttcgacatg gctgcgtcta atgtacaatt ccgaatggat actatacaca tagtagaaga 300
gcatgctagg tgtaccttaa aaatcatgat ggttctgcta ccgaatacct tcttggaat 360
agttacaaaa tgaaaattta tccgatggcga tagacaatat tgatgaggag ttttcacaat 420
aagaatcatt atgcggatca cattcaacac ctagtggctg cttcacaaaa atcgaactac 480
cn 482

<210> 22266

<211> 242
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22266

caccaccaaa aaaaaacaaa gacaaaaann nggagggatg cctgaacaaa agaccggcta 60
 acacggaccc ttagagagag ccaggacagg aaaagagcca aaccgagaga aaaggaaagg 120
 acgcgaacga cagcccgag aaaacgcgca caggccgaca aaaacagaca acaagcagaa 180
 caaaccgaaa acggcagcaa ggaaaccagg aggcaacagg gaggagacaa gaagcaggag 240
 gg 242

<210> 22267
 <211> 449
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22267

cgctgaacgc ctgggggtcga taccttccat tatcgatact tttagaccct tcacagcgca 60
 gaactgagcg agatgataca catactgatg acttgtcaac gccaccttta tgggcagcaa 120
 ccccgatcac cgggtggaaat acgtcttcag cagctcggca atagcgtacc aaacacatca 180
 cgcatatgat taatgacgac gactgaatat tcaacacgat gctcaacacg tcgctaacaa 240
 tgcatatccg ggagcgagga tcgccctgct aactcagcat ctctgatcac ctgagaagat 300
 accccaactc aatcgggtgc ttaacctatt ctccagcgcc gagtgatttt cctcacgttc 360
 ggctagctca ttaaactgcc catgaggata gccatcctct cacataccac gttgagcacc 420
 ggtgacagtg actgagatca ttctcaccn 449

<210> 22268
 <211> 391
 <212> DNA
 <213> Glycine max

 <400> 22268

agcttttttg agtagaaaca tgggaccaac tcattttatt tcaaaaagga agtcgtatcc 60
 agtcaaggtc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120

gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg tggagtaggt 180
 gtctgccatc gccttggcct tggctaacaa gcggggaagt tcttgacttc cgttcaaggt 240
 aagagcaaac cgggccatcc acatggttgc ctcttgggtg aaagagtcga tcacccttcc 300
 tctagcctct ttttccgcat atacttgagc atactcatcc gcgattctat gctcgtgggc 360
 cgtggctaga cctaactctt cttggtactt g 391

<210> 22269
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 22269

tttcggttca ttctatgtac ccatgggtggg ccacattgtg tctcgtgtat ttctattctc 60
 gttgcattta cttgttatcc cccctcttga cgtgcttaag ccattttact taagtcattt 120
 ctcgcttaaa ctaaaaataa aaataaattt ccaccgaacg tttgaattgc attatccgtt 180
 aacttcgttt aaaaggaatt ccgaccgttc ggctcgtgccg tagccacgtt ggaaatcgaa 240
 aagagatact ataatagtat aaataacaaa aatatacctt ttagtaaaat aaagcggaaa 300
 atcaatcgga cgctatctct ttgggatatc tcattcttaa tcgaattgac taataactaa 360
 cgtgagacta aggctaaaat caactcgcct agtcgagctc gtccacaaaa at 412

<210> 22270
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22270

aggtagagac ccgttgacgc gtgttgcnc tttatatacct tgtacaccnc nnnctntggn 60
 ngntnngctg agatcatcaa gcggttttat agagacatta taggatttga ttctcagang 120
 tatntggtcc gcgcgagga tattattctc tttaccaaca ttatttcaga aatcccaacc 180
 gtgaaaacgt gaaaatttga gatccataag tggagtctaa attccaggat gatccaacat 240
 gtaacgaatc cgagatcata gttggactga aacacattca tgtgtatgca aaaaaataat 300
 gaatcttgag agaggaagga agaagaacca cttcatgagg aagcgagact gtagatccaa 360
 taaaaactga cctatatgcc tctactcata gttacacgat tctaaactca atacttactc 420

tatcattgaa tcatatcact tgataaaaaa cagaactctc tcttactatg tcctgactaa 480
acagaccatc aaaacatctg tctacttctg tatcaac 517

<210> 22271
<211> 366
<212> DNA
<213> Glycine max

<400> 22271

agttattaaa gagcaaggaa gccaatcaaa ttaatatgtg gtaaccacgc acataggcaa 60
taagacatat aaatttatat aaatgttggc tagctaggtt ttggagataa taggatccat 120
aagcttgtga gacagcatac gataaatcca acatcagaaa ctgaatcatg tttaggaaaa 180
ttgtataaag gttttaaagt gtggttgtga ttcttgacat tgtggaaaaa tatgaccgat 240
gatgtcacca caagatgctg tcgcccacaa agcttgatat tgtgattgaa attcctgtta 300
ctgatatttt tgaacacctt ggtatgaatt acaatttttc aagctagccc aaccaccgtc 360
caacac 366

<210> 22272
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22272

ggcgccaggg tgagcgggtga accatgaacc tgaanaccga cacaaaacca gcgggattga 60
attttaaaaa atttgaaata tttgggaaaa cggcttgggg tattgatata ataaaatag 120
acgatattta agacaaaatc tttaggatat aagtaaatga agagttatgc taatatatgt 180
aaatgtcatg gactatgtat gttaatatgt agtctttgcy gattacgtac ataatacgcg 240
tagaggagaa aaaatcctga tgtttttata acaaagtaat aagagctata aatggaaatg 300
ctcaaaaaac ctctaacatt cgacttgatg catataaaaa cccaaggata atttgctgta 360
aggtc 365

<210> 22273
<211> 386
<212> DNA

<213> Glycine max

<400> 22273

agcttggtt caaacttctt tataataggt tgccaaacac tccagctctt agaagacacc 60
cctaccttgc aagtattttg ttaaataatg tgattgaagt aaatttttta ttagatttaa 120
ttaaataaat gtttagtatt ttgttctttc ctattagat gttgatagct aactggaata 180
aaagaaaagc taaggtcgga ccagttgata gctaactgga ataaaagaaa agctaaattg 240
cagggaataa ttctgatatc tttttatttc atcattaccc ctttttatag ccatttcata 300
caagatattt tgctaagttg ttataacaga attttgaaat tgcataacca cacaggtatc 360
aagtaaaacg tggaaaaagc ttttaag 386

<210> 22274

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22274

tggagtgaac caatataaaa caataaatta tgcactacta tcttcctct ctttgcatg 60
gttgtgttat aaatatgta actattttca ttgatcttta agacaagaaa atctttcaca 120
aatatactta aaactgaact cttttgtcaa gattttttca aacaaacaaa tccttttttt 180
tttaaataga gctctcaact aacaatatta cacttgtatt cccattcat gtgcaaaatt 240
actaagtgtg aatcaccata attatgagct tactatactc atcttcccaa taaaatattt 300
aaacccaaaa tcaatgcttc atattttgct tgactatttc agaaatctag atctattgga 360
ttagaatctc aaaccatgct agtggggata attcttacta tcccaatcct aataacttct 420
tgtgttnttg atatgtcata cc 442

<210> 22275

<211> 380

<212> DNA

<213> Glycine max

<400> 22275

agctttcaaa cccatgtaat ctctaatat ctcccacact ttgtgggttg ggccattctt 60
ggatggcctt gatatttctc ggggtccactt ggacccatt tctaccaact acaaaccta 120

agaaaactat attatctaca caaaaggtac acttctctat atttgcatag aaggtgtttt 180
 tcctaagaac agaaagaact tgtctgagat gtactaagtg atcatctagg ctctactat 240
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
 gatgcataag cctcataaag gtgcttggtg cattagtgag ccctaaaagc atcactatcc 360
 attcatataa accaaacttg 380

<210> 22276
 <211> 669
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22276

ggggaccaat gtgnnnnntt tttttattcn gactagctag nngcntgcan tcaanatttc 60
 nncaaanan anactngcn ananantgnt atnananaga nagaactnga gtagagtgcg 120
 ccatgtctgt agattagtta nagtngcttt cgtctgcna canaatgatn cgatgcgagt 180
 gcgcgctaca tgggtattga ctattaagaa cacaatactt catccacgtc gtgtgctata 240
 naggaataaa ttactagagg ggtaaagttg tggcgactg taaacgtatt cgaatgcggc 300
 gcctatacat ctggcctgat ataggcgctc tctctgtctg cagagcgagg tctcctgcgt 360
 tgccttactc agagcatagt atgtggcgca gagagtctag ctcttggtct cctgtagaat 420
 cgttcatagt gattgtctaa acaatttacc tattgtctta tgtatccatg gcgccaatca 480
 gttggaaaat ctctcgcat gttccttaat actagtaaat cgtgtgtgtt ctatgggtctc 540
 gtectcaagg agtctcctcg gacacgtgaa acacttctg ccaccacgtc gttcataaaa 600
 atggagaaac ataacgattg atggcttcta ctccctcact ataccgcat ctaatacatg 660
 tgtccgtgg 669

<210> 22277
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22277

natgaaccct gattactgct cganancagg caannaaccg caccgggacc tcagagccac 60

acttggccng cgattccgtg aacagaccga ccacagcacg gggcacgacc accaggccag 120
 cgccgaaagc cggagaaaga ggcaaccaag ggaaacgaga cacagctggc ggcgggaagc 180
 taaagagagt aatgctgagg aacatataga ctgtacacgt catagacatg tgacataaag 240
 tcaaagcaca ggaacaccaa cggagacctg gcaaggccgc agcagacacg aaaggccgac 300
 accagaaaca cgtgcgccag caaggaaccg actccaacca aatcggacac aaccttcgaa 360
 tatgatacgg aacgcaaaca cgtcgaatag accccacatg gctgatcacg cgatgtangc 420
 aagcactacc aatatgcacg 440

<210> 22278
 <211> 156
 <212> DNA
 <213> Glycine max

<400> 22278
 agtcattgaa gatcggcggc aatatcgtaa ccaacatggc aaacctcacc aaatatccac 60
 cttcatttca gagttcatag caatagaaga aacctcatta ccaatactat cagctctgac 120
 aacaatttag aaaatattct ctcttccatg acttcc 156

<210> 22279
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22279

gactctcgnn nnnttggang cattaaatga ggtcttgcat gcacggcccc gggatcctta 60
 gaggcgcctg caagctgcaa gctttctaaa cagatctgat ctgaagtctc ggattcgaaa 120
 acttaccgtg tgtagaaccg aaatcggctg atgaacgatg aggatcgatg aataacggac 180
 gaataccttt acggatttgc ttacggaagc atctcggaag cgttacggaa gcacctcggc 240
 tatgatggtc ttcacggaaa aatttttttc acccataaca gctggaatac atagccaggg 300
 ggctgacgga tccttagaac agcccccttc agcctttcta taagactaag gaggaggagg 360
 atgccgccag ctgcgtccagt cgaacttagc tcgactatgc gagctcngct ggttaattta 420
 tatgacgcta agcgcagttt gtgtgtaaca acactaacct cn 462

<210> 22280
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 22280

caagctccaa atacggaaaa ttagattaca aatgcagcag agtttaagct ctttattaaa 60
 atgctggtcc cacaactatg ttagagaggt tttgtagcca tactgtgaca ctttcttaaa 120
 agtagcccat atgagatcga tgtatagtgg aaactaacac atccatagat attaatttaa 180
 tagttactat atcgaatttg agactacaaa atagcataat tactcaagtt ttcgtctttg 240
 atttctcttg tgttctcata ttttaatgtg attgctaattg ttaaaagtga aattgttttc 300
 atgcatacaa cttatcattt ttcattaact ttccaaaact aacggtcata ctttaattctt 360
 attaatttca actttcttag atgtgagatt gtgtgcatat ggtgatgttt acattaagaa 420
 tttttta 427

<210> 22281
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 22281

tatgaaagag catgctatgt gctcgagaca ggcccctcta taccatccac aacgagagct 60
 cataaaagcg accccacaga actccgcaaa aattagggcg accatactct tcctagcgag 120
 cactcttgac ctctagttca aaggctctca cagcagttgc attctctacc cgaaaaccag 180
 cacactcctt acggatgtgc gtaacggcca acaagaactt ctccatggca agatacgccc 240
 ttcttaactc actttcga 258

<210> 22282
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 22282

cattcagatg tagtaatgaa ccactaacct agtttaaaag aactaagttg ccctagccca 60
 gggaatnaag ggaacttaat ggatgagtgt aactaaaatt gtggcaacca aaagtcaccc 120

ctaacagcca tcaagccagc caccatttgg tctcccaaaa ggctgatgcc taggttgcca 180
 attgggcctt tattacaact agaactaaac caaactaaag cccttatagt tgattaaccc 240
 aaaacatatt tttggtcagc caactttaca aggattgggc cattatttag acaaactaaa 300
 cactctataa ctgatacaaa gtggtgtcat ttagtctctc tccatttggg ccatgataca 360
 actcacaacc ttggactttt ctcttgaga cttgggcttg tattctaata gcatggaca 419

<210> 22283
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 22283

agcatatact taagtgttta gtattagagg ctaaaatata ttctgtacaa tgaatttaaa 60
 aaaaaataa aagtagtgag aactactaaa ataatcaaaa ggaagaacaa acataatgaa 120
 tggattaagc caggacccat taaccaagat agctaattct ataattaggt caagattgcc 180
 tatgtgaaat gtatccaggt actcatgact aacaaataga gggatgacgc cccaccaagt 240
 gaaactagat tgataatatg ctgagcacia aagctacatt atctatatat gtgcaacaat 300
 atcaaaataa tatcttttct aaaaataacg aaactctcca aggaacaaga caagcattat 360
 tgaacgcctc cacaacaaca gaccaatcac tt 392

<210> 22284
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 22284

tttatatatg cataaggacc gattgatata taattacaaa atgaagatgc cagttaggtg 60
 gtagatctat tgcactaatc ttactaagga ggcgatccaa cgtaatgtat attggaaaga 120
 ccgaaagact gagaaaggtg tgtactacta ataatactat gggaatcaca acatatgggtg 180
 taaagcattc gtgacatgga ggctccaata tattcgaaat agatagaagt gccagcttat 240
 ctacgcgtgg aatctataat taggcattta ttacttgacc gtggtgaaga caggatatga 300
 gagatcattg acattg 316

<210> 22285
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22285

agctcgnggt ttgctgcagt ctactaatat atggaattac ccattgcttt gcctgagaat 60
 aacaattggt tgaccacaac agcgctggag gcggcaacgg acaatggtct ttcaaataaa 120
 cctgttgtag atgaacaaac attatatcat gcgctgaccg tgccaaacga accagcgaag 180
 tcattgcata attgttacac taactatatt caatgtacct gaacaaaatg atttccaaac 240
 acgtgaccga cacatatgat gcggtggcca gaagagtcag gtggtggttg acttctaaga 300
 aggaaaaatg tcatgctttg ttgttgggac aacgatacaa ggattacgtt ataccgcgaa 360
 gcaatcacat at 372

<210> 22286
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 22286

cacaaaataa agccggacga cagagcccac taaagaaata attccatctt tgttcttttc 60
 ttgtttcaat gcatgcaagc agatttgtgc attaaattgg ccagtctttt gtgcccaatt 120
 gaatacatgc atggcttttg gaccacactg tcaatccctt gcacttgag gcatgtaaaa 180
 ctggtgcgta taattcatgt gtttgtcgct ttgcagtgac tggataatcg aataagaaca 240
 ttattaattt agttgatggc actgatcata cagttcttat ttattcatg 289

<210> 22287
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 22287

actccgctgg atgcaacatg ggagagggaa tttatcacga gttgatgcgc tccatgaaag 60
 gcaggatcgg atggataata gagaacacac tgaagataac aggaggagaa gaggggaatga 120
 tgggtgttct aaacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180

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<223>      unsure at all n locations
<400>      22288
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<210>	22289
<211>	417
<212>	DNA
<213>	Glycine max
<400>	22289

9342

<210> 22290
 <211> 372
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22290

 agcttaatgg tcaagnacat ggcccattcc tgtgggctaa gctctttaag tgagtccatg 60
 ctgaattccc ttttattgag catgtgatca attcctctaa gtcaaactat ttgacctggc 120
 cattagtaaa ttttaattgtt gaagcttaga ctatgatgat gtctatatct ccaacgacac 180
 agaattaaga tacttaccac cactttcttc caacaatata aggaacctcc tcccactata 240
 tgaggaactt accttaaaat aataggaacc tctcattact atgagtagat aactagaata 300
 cccctatga accctaaaag ggaacaacac acttttgaat gtcctaggca taagtcacat 360
 tcatattgtc at 372

<210> 22291
 <211> 338
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 22291

 aataataaaa tttaattgaa ggaaattaat atactaagat tnaacgataa aaattgtgaa 60
 tgcattttta gtttaattat ttattaactc tttttaattg aaaataatat aatttgattt 120
 aatacataca tgttttgttc catgtaaata ttaatattgn gtgatgttta tatgattcat 180
 gaggtgtgat aacatgtcgc attatgatta taacattgtg attgagattg ggtgaatgta 240
 ataaattgag tatgtgttga attgtaagat acatgtgtaa tgagatcttg tacgcattga 300
 gttatgagct atgaactgta caatcacaca actttaat 338

<210> 22292
 <211> 299
 <212> DNA
 <213> Glycine max

 <400> 22292

 ttagttttgt atgaggaagc gttgaaaggt gaaacttcct gctgttattg ctgaccacag 60
 agtgggtacct ggagatatgt cacggggggc acgagacctt ggggacgtca ggtgggggtgc 120

tattgcccaa aaccaaactt gaccaatccc gacccatccc tggcatagtc ggtcagtgcg 180
 aacctgtgat gtacctaaac aggcgagctc ctggctgtca acagatacaa ggaacaaaga 240
 ccacagagca acgaggcttg tggaggctgg ccagctgtga attttgtgta atatgtgga 299

<210> 22293
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 22293

gtgtaatcga ttaatttcat acaagttata actctgtgtg cttaaacaac tctgtgtgat 60
 cgattacgat tatgctattc atgattaaaa cagaaagtgt tgacttctga aaaaatttta 120
 ttttcaactca cacatgatga tgcgatgatgc acaaatgata tgatatagac taagatgcac 180
 cattcaatat aacaaccaat acaaaagcca ctctagatag ttggacatgt aaaagacaaa 240
 actttctcaa gctcttcttc aagctgtaag attaagtctt catgttgctc atgttgctcc 300
 ccctatatct aacacctcca aagtcgcact cttgtttaat agcttcacat ctcacgctg 360
 ctttctctaa tttccttctc ataggcctaa ttgggtgcag ctctc 405

<210> 22294
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22294

caactctccc atttagagga agcttttgga gaaagaggag accatatttt tcttcttctt 60
 ccaagtttta ccaagttttc ttgagccctt ctccatcaa gcttaagtaa gtgacctcca 120
 ttttcaactc taaacttgat tttcacttca ttntcttget ctattctcac ttgtagtttc 180
 aaaatcttat ttttcaactc tgaaggttgg aaacttgaat ctgaactccc actcttttcc 240
 ttctaaattt tgttgagtct acaagggata aggggagtct ctccaattat tgaaccatat 300
 gcttggtggt gaacttgctt gaacatgttg atttgaaatt ttcgagcttg ctgtcatg 358

<210> 22295
 <211> 402
 <212> DNA

<213> Glycine max

<400> 22295

tgaagggtgcg taccctcacc attttatata gaaatctctg gtaatgtgtc tactattatt 60
atgatcatct ctttatccgt cattggaggt gccacttgag cttgctaggt ctctccacct 120
ttgggcttat tatttgaaag attcgtgccc ctttttgtag atgttctgta gttgtatcct 180
atccagagcc atatcagaat tgtactgata ttgcctaacg atggcaaaca ttaggtcttt 240
ccaagaatgg attcaggaag gttccaagtt agtttaccag gtaccccagt aagactttct 300
tggaagaaat gtatcagcag ttcctcatct tttgcgtatg ccccatctt ccaacaatac 360
acctttagat gggttcttggg gcaagtagtc cccttgtagt tg 402

<210> 22296

<211> 374

<212> DNA

<213> Glycine max

<400> 22296

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tggtacctgg agatatgtcg cgggagtcag gagaccttgg ggacgtcagg tggggtgcta 120
ttgccccaaa ccaagcttga tcaatcctga cccaaccgg gcatagtcag tcagtgagaa 180
cctgtgacgt acctaaacag gcgagctcct ggtagtcaac caataaaaga acaaagacca 240
caaagcaagg aggcttgtgt ggtggctggc cagctatgga tcttgagtga tatctagaat 300
atggcctctg gtaatcgatt accaaggggtg tgtaatcgat tacaaggctt aaaaatgaag 360
acagaaagtt aata 374

<210> 22297

<211> 418

<212> DNA

<213> Glycine max

<400> 22297

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ttgttcaatt tcgagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120
ttatgaccat ttgaatttct caagagggtc cgttgttcaa tttcgagcct ctgcacatct 180

tatacgcccg aatcgaacat ccggtgtgaaa agttatgacc atttgaattt gcaagagttt 240
 ccgatgttta atttcgagcg tatcgatata ttataagcct gaaacggaca ttcgtataaa 300
 aagttatgac catttgaatt tctcaagagc ttccgctgtt catttcgagc cttcgacata 360
 ttatgcgccc gaatcggaca tccgtgtgaa aagatatgac catttgaatt tcgcgaga 418

<210> 22298
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22298

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 gtgactctga gtgtttgttt atggaggagt ccgagtcaat ttatgattat ttttctcgag 120
 tattggccgt agtcaatcaa cttaaaagaa atgggtgaaga tggtgatgag gtgaagggtta 180
 tggaaaaaat acttcgaact ttaaatacaa gttttgactt cattgttacc aacattgaag 240
 aaaacaagga tttaaagacc atgactattg agcaactcat gggttcctta caagcacacg 300
 aagaanaaca aaagagaaaa attaaacaaa aggaggctac ggagcaacta ctacaactca 360
 acgtanagga agcaaactat gcc 383

<210> 22299
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 22299

acatgaacac actttacatg actctggaac ttattgattg catggatgct tctaaccaga 60
 ttataacaag ggtacaaggg tgaagagagc aacagccatt attcactaga tttgtaccaa 120
 cttgggaatc aaaataaatt ctgatccgtc tatgtcttct atcccaaacc atttgaagaa 180
 caagcaaata tggcccatta ctctgctgcc aaattcgtac atataccaag ctttgccgca 240
 aatccacaaa taaagcactt attagtgtgt ttgttgacgt ttaaactgtt ttcctttaa 300
 agaaagtaat tttctgtttt aatttgagaa aaaaaatatac tgcttataaa taaaacattt 360
 tttaagaagt atttttctaa cattactt 388

<210> 22300
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22300

agcttttggtt aaagttttca gttctcctga gcgagctagg ttacttttgg aggaagcaag 60
 tagcttacct gggcaagcta ctatgcaacc tcctcccctc atttcctata tataggcgtg 120
 agggggcgac tgaggagaag ggtccaacac ctaaaataaa gagattttga gtgaaattag 180
 tgagaagaag gagaagaag aagaaaaaac aaggccgaga cgctttcgta acgtttctgt 240
 gattgttctc catcgttctt cgtctgttct tcgttcgttc tttattcatt gaccgggttag 300
 tctttatttt tgaagctntg aattcattct atgcaccctt aggggtccat ccttgctttg 360
 atatcttcat cttcattctt cta 383

<210> 22301
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22301

caagcttgcc tcanagaggt ccaggaagga caaggcggcc gaatgaacta gtttcgcccc 60
 ggagttcgac agtcaccgct ttaggagcat tgtgcaccag cagcgcttcg aagccatcaa 120
 gggatggtcg tttctccggg agcgacgctt ccagctcagg gacgacgagt atactgattt 180
 ccaggaggaa atagggcgcc ggcggtggcc accactgggt acccccatgg ccaagttcga 240
 tccagaaata gtccttgagt tttatgccaa tgcttggcca acagaggagg gcgtgcgtga 300
 catgagatcc taggttaggg gtcagtggat cccgttcgat gccgacgcta tcagccagct 360
 cctgggatat ccgatggtat tggaagaggg ccaggaatgc gagtatggcc agaggaggaa 420
 cc 422

<210> 22302
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 22302

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catttttagc actttataac tttatgttcc ttagcatttc agacttcatg cctatgggta 120
tttaggcttt ggtacatttt aatttttggt acattacctt taaactattc tggttgaatg 180
tttaggactt ggtactttca attattatta atctttttat ggcactacta tattatttgt 240
ttaggacttg gaactttaaa ttatttgaag tcttgtgtat ggtttttcta ctccttcctt 300
gtttttgatg ttgccaaagg gggagaaata gctaaaaggt aaggcgattt ttttgttgga 360
attatttgaa catatattct gaa 383

<210> 22303

<211> 398

<212> DNA

<213> Glycine max

<400> 22303

tgaacaaaaa ctggtgagag tgtgatctta cactgtgtgt gaacgtttat ctatgagtaa 60
taatctttgc atgaatctct gaattttaga atgaaatgta taaatgagga catgatgaag 120
gctatgattg tgcatataca agccttttga acaaaaagct taccttgaat tataattgta 180
tcctctgcac cctttatgag ctgaatgata ttgtcaaaaa tttgaaccct gaacttaaat 240
aattatctct agataccttg tttagattct aggagagcat atgggttcaag gaaaatttac 300
tccaactttg ggggagtgga actaatttgg atgcaaagaa agagataaag catcagcaca 360
cacaacacat aagttgtgtg ttaaaaaaag aagaaaag 398

<210> 22304

<211> 386

<212> DNA

<213> Glycine max

<400> 22304

agcttcttgc gtagcctctc tttgtgctca gaaaatccca aaaacaaatc cctcttatta 60
ctagctatnt tgaattcttt agttcctgaa tgtacaacct tcaaattggt gctcgttccc 120
ctctttcttt tttgcaaaaa agaaaatcaa tatcaaagaa aacatggatg aagtcataag 180
gatgccatgt acatgtgtat ttctgaagat atagtattta tattccatca agcatacatt 240

gactgttgat tacatgtaat agacttttta taacatgggt gccccaagtc acaattaaaa 300
 agcacaaacta ccaatctttc ggagtccttt ggtaatttg tcttgctctc ttatgtgggtg 360
 gggatgtgta taataatatt atactt 386

<210> 22305
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22305

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 taatttaatt gtcaattaca aaagtacata aaggctctca attttggtgg ttgctctctc 120
 tttgatgatt cactcaattt ggagtgcttc ttagttcaat agcttttaag gtggttggcc 180
 cctcgcttct tgattgaaat tcttcaatgg atgacatcaa tcctccttcc caattcccta 240
 tatggaaact cacaacaag aaaacaaaga gacaaacaat aaccaagac caaaaaatta 300
 aatgaaagct aaaccaataa atttttaaca agaaaaattt tcaaggatta ttcgacaatt 360
 aaagcaatga aaaggacata gaagcaagct aggactcaaa gagaaactta gaatgactct 420
 agagtag 427

<210> 22306
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22306

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 tgtgagtggt atagatgcct gtgcacagga tgcgcttata cgaagaggta aacaggtgca 120
 tgggtcaaatt attaaagtg acaaaagtgg taacttggtt aatgtgtatg tgtgtaatgc 180
 tttgattgac atgtatgcta agtgtggaga tatgaaatca gctgaaaatt tgttcgagat 240
 ggctcctatg agggatgtgg taacttggaa cacattgatt actgggtttg cacaaaatgg 300
 ccatggagag gagtactggt ctgttttcac aaagatgata gaagccaaag t 351

<210> 22307

<211> 521
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22307

acccccacccc tccccgcccc ggggaacggg caataaactg tcgcatccnc ccnncccacn 60
 cccggcgcggt tgaccttgag cctggcatac cggaccnaca ccaccggcca cgagagaaaa 120
 gaaagagcac acttctcnac atctttgcna ncatagctta gccagagacg atgctatcta 180
 aatgttagcc taggcagatc gtattctata tagattctaa tcgtccagat ttatgcatgc 240
 tagcggatca tatccagact ttattcgatt tcatttacgg gctctgactt ataatagaac 300
 tggaagcttt ggggctgagg atctatataa cagcacccat gttctagtgt agagagtttc 360
 ttctttcgga gagaagaact attgtaggaa ttgacgaatt caatgtttat cactgcgcat 420
 gccactatt cacgtagaat acaagtcact ttctgggaag catcttttat ccatacattt 480
 tttaatacta tgctctttgt aatctcctgt ggagtactgg n 521

<210> 22308
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 22308

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 gacatctccg tagaaggctt tgggggactc gtcaataaca tcaccgcca cgactatctc 120
 gcctttgctg aagaagaaat ccccgccgag gggagagggc ataacagggc tttccatgtg 180
 tcagtcaa at gcatggacca cgtcgtggcc aaggctactca tcgataacgg ttccaattta 240
 aacgtgatgc ccaaagcac gttggagaaa ttccggttta acgcttccca tcaaaggcca 300
 agttccatgg tgggtccgtgc cttcaacgga agccgcccag aggtgagggg agagattgac 360
 ctccctgtgc a 371

<210> 22309
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 22309

aatcattaca aacaaaggcc atacaggact tntgatggca cgagtgtcaa catgcacttt 60
attaaataat catattggag tcgagctatt ttatgacaca tacgtatttg cacacattac 120
aaaatcatgt gtgaagcatt ctacgacacc tatccatgta catattttat tgacaaacct 180
ttccatgcta catcctatat atatacacac attttttttg gaaggcttgt tttggtacct 240
actcgacaat acacatattt tgaaaaaaaa cgtttacgct acccattcaa cactntgtga 300
ggcacttcat gctatatata ttcatagtat gcanggcatt ttcattgctat atatataca 359

<210> 22310

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22310

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ctaagcacag accttgcgct aagtgtcag acttcacgtt ctaagccgag cttgctggcg 120
ctaagcgcac aaaccctga ttggttggt gaatagttca gctaagcgca catcactgcg 180
cgaagcccta catcttcacg ataattgaac cttaaccagt gggcttagcg tggatgatgt 240
gctcagtgcc acttcttctc tggaaaattt ttattggagc agcgctaagc gcgctatcct 300
gcactaagcc ctatgccat tctgtaactt gagtttgtaa gctgggctta atggggcaag 360
aagtgc 366

<210> 22311

<211> 406

<212> DNA

<213> Glycine max

<400> 22311

gaaactcagc ttacaaatgt ttgaatccag cccatttgta cattattcaa atctagataa 60
gataagatag gagctatatt aaataatatc tagatgagaa atgcaaactt agataagata 120
agataagatc tagatcaaata aatatctaga tgagaaattc aaatctagat aagatatgat 180
aaagataaga tatgataaga tctaattttg tagaataaaa tagtctgccc tcttcaagtc 240
caagctcaat tctggattca agcccaagcc caattctgga ttcaaacctg tcataacccta 300

attacgtccg gggacctttg cttgatgaca tgcgaccttt ctttggctct tgagaggcgc 360
 ttgacatcca tcattgggca atttgtgaaa ttccaggaca tgccga 406

<210> 22312
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22312

tctgcangca agcttggata actnnnnnna ngggagatng atgcatattt tactaattat 60
 gttaaaattt tgttttctct tcttctgcat tgtagttaaa ttaaactatt atgtgaaagt 120
 ttgggtccatc tgtgtttcag ccctgcttca attactttct ggggtgtagag ctatcaaggt 180
 caatggaatc tatttaggaa tattgtttaa cttctacatg attaagttat taaaaatttg 240
 cactgtttga ttgtttaaag aagggatata tatgggtgctt gngagcaata tcttggactg 300
 gaacacgatg acagtgtccc aaaaaagtcc tatgcagtca accaggtaaa tattgaggat 360
 tagtttcttt ctttccttt 379

<210> 22313
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22313

ctaagcttgt ggaagccttg agcaacaaac tgttgggttt ttggcaagct ttgaagaccc 60
 agccatcgta aaaaaaaaaag gtatgattta tcattgtttt gtttgcagta gtggccatgc 120
 tctaacgagt gcgtaccaa gttatcttca gttgatctaa catgttttgt ctgtggagca 180
 ttgattcttc aagggaatga atgggtgggg acccttgaac gtagtcaaga agggaagggt 240
 gatctcgaca atacaaagca cgaaagggt aatgttgatg gccgaatggt aggaagaatt 300
 gtaccaatat ttgacgaggt gaaggactt gtaccaagat catggatggt ctccaacaaa 360
 acatctcaat taaacctcan aactgcgatt agtgacttca gtttggttgt ctaa 414

<210> 22314
 <211> 387

<212> DNA
<213> Glycine max

<400> 22314

tttgcattgca agtttgtgag gatgctttaa tggaggaaaa gaaagagaga agggggggagc 60
acgaaattga aggaataaaa gagggaaaga agtggaactt tgaagtgtat ctcataagac 120
tttcattcat caaagttaaa acaagtgtta cacatgcttc tatttataga ctaggtagct 180
tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttgagaa gctagagctt 240
agctacacac acccctctca taactaagct cacctccttg agaagcttcc ttaagaagat 300
tcctaaagaa gctagagcta cacacctttc taatagttaa gtcacctcc ttgagatgag 360
aagctagagc ttagctacac accccta 387

<210> 22315
<211> 406
<212> DNA
<213> Glycine max

<400> 22315

tcttttctgg aaaattcctt ccctgattgg tgttctttat ggtattatgt gttggagttt 60
gatattggat gtgttgtggg tggatgttgt ggccgattta aggggtggcct ttgttgttga 120
ctgggtgttc ttggttgggt ggtggtgggt aatgggcagg actgacattg gcagagtatt 180
gatattgctt ggaagaatat tgcgtcatat gattataatg ggctagtgga aagttttgcc 240
acttggaac tgcaaccact acatgagggt ctcctttttt cttcctttcg caattcctcc 300
caactgtcgc attgtcatga attacttgaa tatgggttatt tatgttgata ctagcttatt 360
tattgttgaa gcatgtatgt ctctgcatta gtttatggat atcttg 406

<210> 22316
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22316

ggaaaccaag ggggatgaaa antatatnan caattnngcc agncgttaat gttgaatcat 60
agntttgctc tctcatctgc cctttgtctc atctctttac cttacaactt agtcaattct 120

atcattaccc tttttcaata tgcagaatca gcaacatgca aacatatcta atccagcaaa 180
 tgccaccatc aatagccacg ctatgggtcca gaaccaacaa aatgcctcat gtcccatttc 240
 tttcatcttc taaatttatt gtagcttctg cagatttaaa agaagcatcc ggttcttcat 300
 ttcaacatga atctactgtt tagttcataa ttcact 336

<210> 22317
 <211> 235
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22317

tggcnttgaa ataaaaatnt gtaggtgtng caagggtttg tggtagtgc ttatntgntg 60
 agaaanatat agaactttgn tnttatatgc agcaacctgc agcaattgac cagcctgaag 120
 cttactgctg ccatatttac aatagacctc ctcaacctca gcagcaaaat caaccacagc 180
 agaaccattg tgacctttcc cgcgacagat acaacctgg atggacgaat cacc 235

<210> 22318
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 22318

taatctgac atttttatat catttttaca ggcctattct tgttaaccat ggcgagatta 60
 tgatgacgct tacgagcgca cgggtgcctaa ctcatgaact aggtccagag aactagaggg 120
 cacacttgat actaccatgc ttccactcaa tgacgttaac tgttcacaca catgaacgat 180
 acaggtgaaa gactgggaca cattcggaaa gcaaccaaga gcagtagcta ctggatcatgg 240
 gagacttaag aaccacttgg aacatgtttc tgaggagaca tcaggggcca gtactaaagc 300
 agaaggactg aagaaagaca tgataaagat cattgacctt cctcaaacag acacgggaaa 360
 ttccttgga tagatgatat acaaggtcca ca 392

<210> 22319
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 22319

agcttctatc ttcattatta gttatgaata caagcatctt gctctttcct attttttttt 60
aatcctaaat tagattagag accacgaccg tccatcaatc tatttggtca aaaattaatt 120
tactcaagt taatagttca atatgttttt tatgctaact ctttttggtt ctcaaactta 180
gtaatgactt aaggaaaaaa agttgaccat tgttataaga tgattttaag tagccaaatt 240
taggcacccc atccatgtgc tgggggttag cttctgttc ctttaataaaa ttattttctc 300
attaaaataa ataaagtcac gtgaatgtta gttaataaat tgagataata ttttttagaga 360
attataatat ttaatattat taatata 387

<210> 22320
<211> 403
<212> DNA
<213> Glycine max

<400> 22320
tatcagaaac cttttggaga ttgaccaat ccattgatcc cttggtatat gattcggtct 60
gtgtttcaat aaggatgtt tagtcttata ctttgtgaaa tacatactcc ttaaatcaca 120
tttgtagtct ttccatttct ttccaagtga ttttttgaca aattccacac cacgttccgg 180
gatcgagaac ttcttctaca aaaacacaac aagctgtaac aatgtcatac catgcatgat 240
aaaaataaat gaaaattacc acattaagaa aagttatttc ataccctcac aagatccacc 300
aatttatttt tttcttcttt gtcaaaacat ctccaatcgt ctatgtttaa aggtgctaac 360
tctggatttc tagctataat gctagaaag ctagcaagct ttc 403

<210> 22321
<211> 385
<212> DNA
<213> Glycine max

<400> 22321
agcttgaac gtgcaattcg gtggctgaca ccttttctca catccttgac ctttagattt 60
caccatatgt cactttatcc atgttgaact tcacattctt agatcagttg caacagactt 120
tgctagctag ttctaagttt tgtttcttct ccaacaaatt taggtaaacc tacttccca 180
taagaatatc agcattagtt gcaaactcat tttttaagg caaaatatgg ttgaactcta 240
acaaccatt ttagaccatt ttgttgaaa agttccataa aactccattg ggtgggcact 300

tgggtgtagc taagacatcc cataagctgc aacaaaagtt cttttggacc aacatgcgtc 360
atgatgttaa actctatggt acaa 385

<210> 22322
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22322

cttccccatg aacccttcga tncgtggac tatcgaatac tcaagctagt cttgcgcaga 60
attagggtag aggatttagc atgtttacag aattccagag caagtatacc atagtgctaa 120
ttttgagata aaagctctgg aggcagcaag aggagcaatt ttgcggagaa gcctagggtt 180
cttcaattag agagagatta gtgagctata gagggtgctga gaagaggagg 240
gatccccctt cttgtgtaag gaacaattat tttgtactgt taatctcatt tgtgttaggg 300
tttttctgta atggctggct aacaccctt gttggggatt tctaaggaa aactgatgta 360
attattttta tatctaatta attgtgtttg atgtgttttag tgcttctttc aatgcttaat 420
ttcgtcatgc tcttagtttg atcaccatt tgtgtgtaca gttaggtgac tt 472

<210> 22323
<211> 240
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22323

aacgggaaga agaggcgagg gaaaaagcac aacaaaaccc cccgccaacg agagaaagaa 60
acaaaccag cacaggagca aggcgccaca aaccaaacag aaaacgaaca gaagggccaa 120
aaaaaaagca ccaccaggca aggacacgac aaaaacaggc agacacngca cacaaaagca 180
caagaagaca aaaggacaaa gcagaacagc ggaggcacc caaaggcgga accgcaacac 240

<210> 22324
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 22324

agcaattctt agagaatcgg catgatatgc gctctaaata caatatccgn gcnatttttag 60
acgcngcatg taacttgatg gctaagggtgc caatgacaag aaataaaatg attttgetca 120
acattcaaaa tgatgtggca caatatctcg agatgtgcta caaggatgca tctcggtttt 180
ggcatattca atttgggcat cttaattttg gaggattata gtttctctcc aagatagaaa 240
tagtgagagg attgtcttgc aatagtcacc ttgatcaagt gtgtgaagga tgtctacttg 300
gcaagcaatt taagaaaaac atttcaaagg agtctaactc aagagctaaa aaattgttgg 360
aacttatgca tatagatgtg tgcagttcta tccagccgta gtcacatgga 410

<210> 22325

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22325

agtttctaata gngnncataa tgattgcaga agcataactta gttctcccga aatcctcctg 60
caaaaactgc agcataatgt cttgtgggtc tgtgggttctg aagaagcttg gtaaacttca 120
acaaaatttc tttgacgcca ggtaaccaat cgatggcagt ctccaaatag ccatttggtta 180
tatcagtcga ctctgcaagc ataggcatgc aataaattga gtgcatttat gaattcatgt 240
tatatggaaa atcacgttgc aacatcagtt agtataatat ttatagatat cgtctttaat 300
ttcatgttaa gaaattgatt ttgaatacac ggtcaatttt gagttcaaca aaaaaaaaac 360
atcaaaaaat aaattacttt act 383

<210> 22326

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22326

aacaggatca gtatattcat tgacttagat tgtatgatga attcggttgta cgtgacatat 60
tatggagtga tcctgatgca gtcaaattaa gcaatgccta taatttggtta tttttgatag 120
acaataccta caaaacaaac aggcacatgt caccattact tgatattggtt ggtgtgacac 180

caacaaggat gacatcatct gttgctttta cctatttga gggagaacat ctgaataatg 240
 ttgttagggc tctacaacgg tttcaaggtc tttntcttag acgtgatgca gtcctttgag 300
 ttattgttac caacaaagat ctaacattga tgaatgtatc gaaaaatgca ttccttaagg 360
 ttaccaatta gttgtg 376

<210> 22327
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22327

agcttgtggg atngagttha gtttcaaat ccgtgcctcc tccaaagcga acaggggtga 60
 ttggaagagg aaattgtcac atggaaaagg ccaccataga tctgaagcgc gatggaaagg 120
 atctgaacgg tcgcggtcat caactcccct gctgcgtaa gcacgactgt cccgcctccg 180
 tttcccacta tttcaaacc taacacaaat gtgttgggga agacgagggt ttaccgttac 240
 aagagggtca ttttagaggc aggttactcc aaggaacaac actccctctt ccgcacgggt 300
 actctggtac gctatgcctc tctcaacaca cgcattgtcag tgaatgttat ctgctcctat 360
 gtatatgtgt gtgtatgc 378

<210> 22328
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22328

catctaagct tcaacgatga aacaaggctc acttacagt actgagtttt tcaactcgtct 60
 acgtgtaatt tgggatgaga ttgagaactt tagaccgat cccatctgtt cctgtaatat 120
 cagggtgttc tgcaacgcat tcaccattat cgcgcaacgg aagctcgagg atagagccat 180
 gcagttccta cgaggcctga aggaacaata tgctaataatt cgttctcatg ttctcctcgt 240
 ggatcccata cccgctatct ccaaaatatt ctccatgta gctcaacagg aaaggcaact 300
 actgggtaac accgaaccag gtattaactt cgaacccaaa gatattctca ttaacgctgc 360
 taagaccgtn tgcgatttct gtggacgcat tggatcatgtg gaaagcgcgt gttataagaa 420

<210> 22329
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 22329

agcttgcact tctcaaagaa gtcaacaagg agatcagcag cacggtcacc atggtaaggg 60
 tcaatgtgga agccagactt gccatgcaca atgatctcag caggaccacc attgcatgtg 120
 gcgaatgttg gcaaccacaca agtcatggcc tcaaccactg tcaaaccaaa agcctcgtat 180
 atagccggct gcacgaaagc tcccttggtg tcgcagatca cacggtagag ctctccgttc 240
 ctcacacggt tcatctgaga tgaaatccat ctgaattgcc cgttcaactt gtaggtctcg 300
 atcaggccgt acatcttctt catctcggcc ttctcttcca agtccttcga ctcttctctc 360
 ctgtctccgg caaca 375

<210> 22330
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22330

aactaacgct gctctaattcc ccgcaaaaag acgatcattc cagctctacc agcgaattct 60
 tcaaatgcaa gtaacctttt cccagtgtcc cccacaatta attcatagtc atataacgat 120
 gccctctcag ctagaatcta agattatgga aaataccaaa agcgagttag aagttgcaag 180
 aaaccaccac aaaatcgaag tcacatttca agcatttaag tattatatat acaagtatgt 240
 aacattaaca caccttatcc agcaaaggca tgttatcttt ctgtgctnta tgtgtatgtg 300
 agaggaaagc ataagctcta tctggtaata tcatctacag ctgcac 346

<210> 22331
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 22331

agctcccttc ttgtgagtgc tttgtcatca aagccaagg tagccaaccc aatcttcttc 60

[illegible]

tgggaccgtg	gtcccagtct	gattatcatt	ctcgacgatt	ttagtgggac	cgtaggtccca	60
gactaataat	cagaccgacg	atacgagtgg	gaccgtggtc	ccagactaat	aatcagaccg	120
acgatacgag	tgggaccgtg	gtcccagtct	gattatcaga	ccgacgatac	aagtggaaca	180
gtgggcccag	agagaatatt	caggccagtt	atgctttctg	gcctgtaaca	aaggacatta	240
agtaaagaca	gataaacgta	gactaaaacg	tggtcgcata	agggtgctgg	cttttcaagt	300

tccttaagaa tggcctcaat tttctctata cactcagttg gaacacgaga cctgtccagg 360
ttaagcacca ttttatcgcc cttatacaat actgtcgctc caggagcaaa ctgatgtcg 419

<210> 22334
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22334

ctcgacccgg gatccttaga gncaccttta gcatgcaagc tangttctat gaacggaaca 60
aaccgggaga gatgacggaa acatgaaccg cacaccaaaa agaagagcga gtccaaagac 120
ttcacagatc gaaataaggg taaattaaac aactgagtta gcggcttaac ttataaaaat 180
cattggctga tgtacgaaaa taatactaag tattgacatg taagaagaag agtgctatga 240
gtacactata gactggaact agtctcttta accatgatgc tccactgcgt ctcagtata 300
tcttaatgat acttatgaca atacaaattt gaagcgagag tatgaagtat agttaaat 360
gggtagtat ctggcta 377

<210> 22335
<211> 298
<212> DNA
<213> Glycine max

<400> 22335

ctactatctg tattgctgta ctactaaatt gacctagact attggtataa aatataaatg 60
accattaggt atgtgctatg ttggacatat caatatcaac ctctgtcat gttgacctac 120
gggtctcaat tctcctttc tcagcctcta actatatcac ctactataag cgtatgaggc 180
caaaactgct tattaacat gggctacaat accatttga tcaggaactg gttaggcctg 240
ttaattctgc aatcatttcc aatacagaag atataccaa atgctaacaat gatttgat 298

<210> 22336
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22336

agcttgtata tgaagcttgc agaggaagtt agagaaagaa agagatgaag gaagcaatga 60
 attgcataga atgaatcaac ttacaaagtt agtcatatta gtttgttata tagttagtta 120
 caagagtaac taagttataa ctaactcatt aactcttggt acatagagat tagccaacta 180
 aaataactct agttacataa taatctatgc taagaacacc tcatttgggt tttgtattta 240
 ctcatgggta cggtttagcat gggaaaggta aacaggtctc ctatcatgaa aaaaagttgt 300
 tggactatcg gatttttttt ttttactttt gaattanagg ctaggatttt ttttctcttt 360
 tatctttgta ttttctat 378

<210> 22337
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 22337

gacctataaa actcaagctt atataatcat tgaaatcaag ctttgtgcca atctcttatt 60
 aaccaatgtg agattctttt aacacataaa ctaaactctt atctaactct tgatcttagt 120
 ttcttgatct tgagttaaag cttgaagcaa ccttgggttt tgacatcatc aagacctgta 180
 tacatacatt cacaatagtg ttgtttgggt tttccacttc cttttgtgtt gcatgtgtgt 240
 tgtctaataag cttttgtgat tcatgagttc tttgggaagc ttttcgaggg agtttaaggg 300
 gccaggttct aaacttgtag tcgtgttggt tgacaactta gagtttattg accttttttc 360
 aacatatact gattcggcct tcttatctag tgtcgagaag ggtccgatg atgactgagt 420
 gttg 424

<210> 22338
 <211> 375
 <212> DNA
 <213> Glycine max
 <400> 22338

tctagtcttc ttcacatagt ccgcctttgc ttgaccttct ttatgcttaa aaacagaaac 60
 attaggcata ggcaaaagat caagaggagt tagtgggtta aaaccataaa caacttcaaa 120
 aggagaacaa ttagtggtgc tatgaacagc tctattgtaa gcaaattcaa catgggggtaa 180
 acaagcttcc caagttttta agttcttcct caaaactgtc ctaagcaaag ttcccaaagt 240

cctattaaca acttccgttt gcccatcggt ttgtgggtga caagtgggtg aaaataacaa 300
 tttagtgcc aacttgctcc acaaagtcct ccaaaaatgg cttaagaact tagagtcctt 360
 atcactaaca atgct 375

<210> 22339
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22339

natgaccccc tactgagacc tcagattant cctcngacc nccaangacc ctatngaata 60
 ctccagctta taagaacaaa attgtctaaa tcttattcaa agatgcgtga gaatgctgaa 120
 gcatcctcta ggaaaaatcc caaggaatcg tgcattcaat taatggcgta aagcacacca 180
 taagagcatg tgtaacgatg gccctaattc tcacgaatgt gaacacataa gttatgcact 240
 tctaaggaca cctacaggac caattgttga tccacagaac aaagacgcca gacatttcta 300
 ttattaaatg aatcacacaa tatctgaaca ctaaccctta tatccaaagt actctcttgg 360
 cgggtgaagct cctccttgcc tggcttattc cctagtggat ggcgcctact ctcacctatt 420
 ctgctttatc ttcagctgca tatccatggt tgaagatcac cattgagaga cctcattn 478

<210> 22340
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22340

gcaattcagc tcgtacccgg gatccttaga gttttctgcg gcatgttatt tgctgcactn 60
 tgaaatgcc tgcaatatct tgagagctgt agctgggtata tcaaatectg atcgacttcc 120
 aacaaagatt aatttaattt tatgggtgggt taattgtggc tgccaatagt tggattaatt 180
 tgatccatct ctttatatac tatctgaaat gtaggtgtga attcaagaat aaccatggta 240
 attgggttcg tgaagtcaaa cctaatttat gtctgaaat tgcattaagt gtggaaaaag 300
 ccttagagac aaacaaatga agagaaagtt aattgggtatt tgtcattcta taaataagaa 360
 actgcgagat tcttttactg atcttcttgn ggtgttattt ctctctgtca tacaca 416

<210> 22341
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 22341

tactaccaca ttcatggac taaatccatt tcaagattac attgttgtgt cctgagacaa 60
 aaagcatggg aaagctatat tcaggaaaaa aaaattcttt ccaaaaaagt tatagaaaaa 120
 gaaaaaatca agttccacaa tatgctaatac tggacatgta agtgaagacc aatgcctagt 180
 ttggattaac ttgtgggaat tttttaatta agaaacccta ctattattat ttttcaaagg 240
 caataatgcc aagttttgat aaatttactg gtgcttatga acaatttggg caagggagct 300
 tctgaaaaat tatagttgca taagtttttt ttttaggttt aattacacat ttagtttcta 360
 tagtttttaa acttgtccct tttagtcct atagataata agt 403

<210> 22342
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22342

gcccataatt gtcacccctt cttcaagaat cccttttatt tctgaattgc nngnattcat 60
 atatcaaatt tgttgtctta ttgaactttt ctgcaacact tgcccaacta agcttagtga 120
 aatggctgtg aggtttatat ccaacattca cctcttctat gcacactntc aacataatct 180
 caatatttat atcataccat cttgctttct ttcttttcac aggaacttga ttgagagaca 240
 tttctcanac ttaatgaagc acacaaaagc ataaccctaa tccataacaa ttcaaaattt 300
 aatgagaaga aaaagacatt aatgaaaaat tggtaaccc gtgatgttaa taaaggaaga 360
 cgaacagatg ctgaaggatg atctgaagag aaattgaaaa tggaagagag actg 414

<210> 22343
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 22343

tcaagaacat gaaatggaac tcatgagact ccatcaatat gaatagtttg ataaaaaaga 60

ggaaaggaat agcactcaga gcctcatcaa cttttattca agaagaaagt gacaaagagg 120
 acttgaatga aatagaagaa ggtgatgatt tcataccttt tgtgaagaga ttcaataagt 180
 ttctgagaaa caaaagaaat caaagaaaat caaacatcaa ttcaaagaag aaaggagaag 240
 attcctcctt agccccaaaa tgctatgaat gcaatcaacc tgagcacttg agatttgatt 300
 gtcttgtcct taaaagaaga atggaaaaat tcgacaagag agatttcata gaaaagacag 360
 catacgtcac ttgagaagac aatgacatgg atccttcagg tgattcagaa aataaaatca 420
 taaatctggg 430

<210> 22344
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 22344
 actttgccga cattttgttt tttgccctg tagagataag gagtagggcc gatcatttgt 60
 gttggaatct catatgggtca ctggtggagc tttatctagc cgatcgtaca cgttgatacc 120
 tcggatatac aacaagtggc acacaagctt ttatatatat cacaatgtct ctaacttgag 180
 aagttatatt gagtctatca gactgagaag cttggatgag aactcgaacg agttgactaa 240
 taagctaagt gaaactgaca ttctgatacc aatgccagat gtcgtacaag atgtcacgac 300
 ataacacttc agaacatgct agatctattc tacagtttgc tct 343

<210> 22345
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 22345
 gtctcacgat tgtcatgtgc tcatgcaaca attgatatcc ttggctttac gagacatcct 60
 gccgatacaa agacagggtta accatatctc gcctgcgcta attgttccat gctatatgta 120
 gcacactcat tgatcctgtg aagtctgatg acctgtacaa tgaggccgca gccatactgg 180
 gccagttgga catgatattc acccctatgc tttctttgac atcatgatta actcgataga 240
 gcatctgtgc agagaaacca aacgatgagg gcctgtttat ctacagagga tgtaccgggt 300
 agaacgatac atgaagagcg taaaagggtta caccattaat ctatatcgac tacacacatc 360

cattg

365

<210> 22346
<211> 384
<212> DNA
<213> Glycine max

<400> 22346

agctttacac gtatcattta agtgtatgga ccatatcgta gccaaaggtgc tcatcgataa 60
tgggtccagt ttaaactgga tgcctaagag cactttggag aaattaccat tcaatgcctc 120
ccacctaaag ccgagttcaa tgggtggttcg tgccttcgac ggcacccgcc gagaggtag 180
gggacagatc gacctcccag tacagatagg ccctcacaga tgccaagtta ccttccaaat 240
aatggacatt aacccccctt acagctgtct gttgggggtgt ccgtggatcc actcagtggg 300
agttgttccc tctacacacc accaaaagtt gaaattcgta gtggaagggc atctgggtcat 360
cgtatcaggc gaggaagaca tctt 384

<210> 22347
<211> 420
<212> DNA
<213> Glycine max

<400> 22347

ttgacttgag tcatcaagaa attataaata tgtgaccatg gcatgagttt cattaatcat 60
ccttcaataa gttttcacia caagttttta caaaactttc tacctcgttt ctcttcatct 120
ttcaatagaa atatttgatt cattttctcaa cttcttttcta agagtttttg ttcaaaaactt 180
tctcttccaa gaaaagttct ttgctaaaaa acttggtgcta tttttttctt ttcaattctct 240
tctccctttt ccaaaagaac gaagcactaa ccgcctgaat gcttttgtgt ctctcttctc 300
cctttgtcaa aagaacgaag gactaacgcg ctcaattctt ttgtgtctct cgtctgcctt 360
acaaaagatt caaaggacta accgcctgag aattcttttg attcttccct tccccttaag 420

<210> 22348
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 22348

agctttgtga agctcctggt ttatctttac ccgattttac tcaaccattt gaagttgaat 60
gtgatgctag tggagttggc attggggctg ttttgatata aaacaaaagg cctatagctt 120
atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180
atgccattgt gagagctctt gatcattgga atcattatct gcgttctaata cactttatat 240
tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300
atgctaaatg ggttgaattt cttcaatctt ttaatttctc ttcanaatac aaggatggta 360
agagtaatgt ggtggctgat gcactt 386

<210> 22349

<211> 419

<212> DNA

<213> Glycine max

<400> 22349

tcgacaaaa tcaaatgata ataacttttt actcggttgt ccgaatgaat accgtattat 60
atcgagaggt tcgaaattga caacggaggc tctgagaaaa tccaaacgac aataactttt 120
tactcggatg tcagattgtg tcccatagta tatcgagatg ctcgtaattg aaaccggatg 180
ctcgtagcaa attcaaacga caataacttt ttactcggat gtccgaatga atcccataat 240
atatcgagac gctcgtaatt gaaaacagaa gctctgagca tatttctaattg acaataactt 300
tttactcgga tgtcagattg agtcccgtaa tatatcgaga cactcgtaat tgaaaacaga 360
agctctgaga aatatctaac gacaattact ttttactcgg atgtctgaat gaatcccggt 419

<210> 22350

<211> 375

<212> DNA

<213> Glycine max

<400> 22350

agcttgtggt ataagaagct tatggtgtat ttaatccaag tcagaaaata aaaaatatta 60
attatcttcc aacagtattt ttctcattga atattgttgc tcctaaatat taattaattc 120
gaaactataa tataatgttt tataatgagg acattttaat aaatagaggg gctcactaat 180
taatttgatc ttcaaacttc aagttcttga agacgggcaa caagatcgag caaataaaga 240

taatgttcag acaatagaat agcgccccaa gcaattgcaa gttaaatttg aggaaaccaa 300
 caaattcaat tcatactttt tttttattat ttatttttat atgtataaat taaaatagtt 360
 atgtacttat gttga 375

<210> 22351
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 22351

atcaagcatg aagaattcga tccaagattc gagattcaag agaagaaatc gtgaagatac 60
 aagtcgcgac ttcatataga ataagtttta aaagaattct tcaaaaacca aatagcacag 120
 ttgcgtttta caaaagaact tgctcaaatt ttctaaagtt acatagtgat tactctctgg 180
 taatcaatta ccagctggta gtcattcaatt accagtgacc agattgggtt tcaaaatggt 240
 atcaaatgat gtgtaacgtt ccataatgat ctttagatag tgtaatcagt tgcactatat 300
 taggaatcga ttacgagtga agctg 325

<210> 22352
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 22352

agcttggtat caaagtacat gaactatgct agtagaattc attttcaggc agcaaaaaga 60
 gctcttagat atgttaaagg cacaattgat tttggaataa gataccatta tgttaaaaac 120
 ttcagacttc atggttattc tgatagtgat tgggctggat gtgctgatga tatgagaagt 180
 acttcagggt atcttttttag ctttggttct ggaattttct cattgtattc aaagaaacag 240
 gaagtaatag ctcaatccat agcagaagca gaatatgttg ttgcaactgc tgcttgtaat 300
 caagctctct agatcagaaa gcttatgaca gaattgcata tggaacaaca agacaatagc 360
 caaatatttg tcgata 376

<210> 22353
 <211> 414
 <212> DNA
 <213> Glycine max

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<210>	22354
<211>	372
<212>	DNA
<213>	Glycine max
<400>	22354

<210>	22355
<211>	416
<212>	DNA
<213>	Glycine max

ntacagcaga ttttagtaat gaccactaa cctagaattt aaataactta atgccattaa 60
cctaggggaat taaaacaaac taaatggctg agtgtaactg aaattggttg caaccaaaag 120
tcacccccaa cagccaacaa gtcagccacc atttggctct ccaaagggt gatgcctagg 180

ttgccaattg ggcccttatt acaacttgaa ctaaagccct tttagttgat taacccaaaa 240
catatttttg gtcagccaac tttacaagga ttggggccatt atttagacaa actaaacact 300
ctaaaattga aataaagtgg tgtcatttag tcctccattt gggccatgat acaactcaca 360
accttggact tttctccttg aaacttgggc ttgtattcaa atagtatgga cagcac 416

<210> 22356
<211> 376
<212> DNA
<213> Glycine max

<400> 22356

agcttcaact attcctgtgc atttctgatg gttacattat ctactgacag aataacatca 60
ccaggagcta aataaccgaa caaaggtgag gttgggggta cattcaaaac ctgcctccca 120
tgtagccacc aacatgcaat aagaaagtgc atgatataca aaatccaaac aaaatgacaa 180
gcatacaatg atttaggaaa agtaccatgg gactactatc actgctgtaa aagggaaaca 240
agatcatggg caagaggaat aatgccattc cgcaagctgc acaacactag aaaatggctg 300
aaggtgtaga aatgcaatta gcaatctaga tcatttaaaa atcaaattaa aaacatacat 360
atgcatataa atgcat 376

<210> 22357
<211> 180
<212> DNA
<213> Glycine max

<400> 22357

cctcttatat gcgtagtgat gagtgactaa tctcaaagtg ctttgtagtg agtgcaatga 60
acagccctgg tctgtatcgc catgcacttt caacaccctt atgtgtgctg cccaatactg 120
gcaagagtga ctcgtttact tcctttaaac accacccttg gtctttcgag ccactattcc 180

<210> 22358
<211> 377
<212> DNA
<213> Glycine max

<400> 22358

agcttattgg attatggggc acccgtcata tgtggtacta ggaggcgatc gggcgatgac 60

acaaatcaac tatcccattt ccaaaagcca ggcagaagct ttcacaatat ccaaacaatt 120
 caattccatt tgtcatgaaa ctaccttaaa caaagaaaaa cagagtggag gcataaatct 180
 ttgcacaaga ttcattcaaa ttccatagag tttttcctac cctcatacct tagcaaaatc 240
 ctcttcgttc cgattcggtt acctttggat ctcttgaaa atttaactgg gggttcctaa 300
 tacagaaatc taaattttga ccattgggat ctgctaaaga acatacaaaa cacgaaatat 360
 actacctttc ccgtgac 377

<210> 22359
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 22359

accgcttgag atgaggaagt gtggaagggg gagacttcct acttttattt gttgttcaca 60
 gagtgggtacc tggagatatg tcgcgggggt caggagacct tggggacgtc aggtgggggtg 120
 ctattgcccc aaaccaagct tgaccaatcc tgaccaaac ccgggcataat cagtcagtga 180
 gaacctgtga tgtacctaaa caggcgagct cctggcagtc aaccgataaa agaacaaaga 240
 ccacaaagca gggaggcttg tgtggtggct ggccaactat gaatcttgag tgatatctgt 300
 gatatggcct ctagtaatcg attaccaagg gtgggtaatc gattacaagg cttaaagggtg 360
 aaggtaggaa gctaagatgg cctctggtaa tcgattacca aagggtgtaa tcgattacca 420

<210> 22360
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 22360

ttctgcttta tatggttaca aaccaatcaa caacaatccc ttgatggcag gtgatacaac 60
 agttgaagca gtagactaca ccatcaggac tcgagaggaa attgcaacaa ttttacacaa 120
 gaatctcagg aaagcacagg agaggatgca gttgtatgct aacaagaata ggacaaacaa 180
 agaatttgca gtgggagatt ggggtatattt gaagttacat ccatttaaac aacagtcaat 240
 acctaactca gcgtttcaca aattagttgc acgattttat ggtccttaca gaattgtaga 300
 gagagtgggg aagggtggcat acaagctaga cttaccagct caagctcgca tacataatgt 360

attccacatt tccttg

376

<210> 22361
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22361

ntccaaatat gtagcaattg atctgcaaac aagtggtaaa acttcaaaca gcttgctaga 60
atctttgtca aaacacaaag gtaacaatat tactaaaata aattctttga aaaatggtac 120
aattgatatt caatcaagca aagaaaagtc aggtagtttg tctacacggt caaaagtcaa 180
ggaaagtgat aacattaatc cctcttctat caaagatgga aaacttgaaa gtatttccag 240
cagtttcagc aacatgggtg tcaatataag atctggaaat tctgaatata ctaatgctaa 300
gggaacttgc tcacatgttt cttataagcc agaaatatgg attctccctc aacaagttga 360
agatacattg actcagctga atctttcaat tgtatgcaaa tggacta 407

<210> 22362
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22362

ttagctatgt gcacctgnng agcaaccctt ttaccatgag tagcattgct gttctcatgc 60
gtgcaaggca ccttccttct gtcaaacttc ggtctattaa cgaaaacctt ctagccacct 120
ataaaaaatat tgttatctag gcatctttcc aacctctgct catccatcac ctctttgaac 180
ctaacaaaac cgaacctatg gccaaagttg tttttggttc gggggatgaa gacctcccat 240
acctttcccc atttctggaa aatctgccac atatcttgct ccattatccc ttcaggggaat 300
ctagagaaat agaaggtcgt aacatcatcc ttatttctct atgtcatctg ctnttctttc 360
ctttggtagc tgt 373

<210> 22363
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22363

tgttggacta tattttacat tactgctgga aataaataac agatacaggt aagccagcaa 60
atcccaattg tcaactatatg tttttatagg ttttggtttt ggtagttttg ttgtcttgaa 120
tgtgcataca tgnnaaactg aaattatttg ttgagaacat tcggttgtgg cttgttattg 180
tatatttgct tatgcttttg ccattatgga caataaatag ttaaggtgaa tatatggtgg 240
aatcgtaaca agatttagtt tgccttttga tatgccaaca gtagagaccg aatgattgat 300
ttagttctac tattgagcct gcagctccaa tctttgaagc tggatctact tctgtgcaag 360
ctaattctcc tcagtcatta gattagtctc cttctg 396

<210> 22364
<211> 382
<212> DNA
<213> Glycine max

<400> 22364

agcttgaagg tgtgtacccc accatttttc atagtaaaac actggtaatg tgtctactat 60
tattgtgatac atctctttct ccgtcattgt aggtgccact tgagttgcca agtctctcca 120
tctttgggca tattctttga aagatccgtg cccctttttt gcacatgttc tgtagttgta 180
tcctatccgg aatcatatca aaattgtact gatactgcct aacgaaggca accattaggt 240
ccttccaaga atggactcgg gaaggttcca agttagtgtg ccaagtagca gctactccag 300
taagactttc ttggaagaaa tgtatcaaca gttcctcatc ttttgcgatg gccccatct 360
tttgacaaca catctttaga tg 382

<210> 22365
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22365

ntntgaaaag acacatttct tcaaaccatt ttgaaaaggc acaaaggacc tatatatatg 60
tgtgtttgac ttcgaaaagc aagaaagaga tattctaaga gaacttcatt gtcaaagtgt 120
ctctcaacaa ctcttgggca aacacttgca aatctattga gagttcatct aggaacatca 180

aattgtatta tccactctaa aggagagaaa tctttttgtt catctcagaa aatcaattgt 240
aatcaataga ctggttgtct cttgaattgt gagtttcctg aacacaaggg aaagggattc 300
cttaggtgtt cagatgttgt aaaaagggtt ttacaaagtt agtgaaaatc tcaagtgggt 360
tgcttgagga ctggacgtan gcacgggaag taaccgaacc agtataaatt gagtttgcac 420
ttct 424

<210> 22366
<211> 335
<212> DNA
<213> Glycine max

<400> 22366

agtttgtcct aactgtttgt atgatcttta gagatgtcac tgacctaccg tcacattatt 60
gtagatgctt tctctctata ttctcttgct cttatatatg aaaggtgcat tcacagcccg 120
taacttcttt tgttttctat tattaagaac aaaatttgtg atgaattctt tgaccttgc 180
taccttaa ataatggctaaa attaatga tgttattctt tccctttttg tatattgcta 240
ttttgatatt tataacagaa agaacaggcc aaagttaaca tggagggcgc tcttgatgtc 300
attattttgc ggcataatg ggtatggata aactc 335

<210> 22367
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22367

ttggactcct tgcanagcag ttccgtaagg tgtcttttat ataccatttc tcaactagtct 60
ctttatttgc ttcttatttg cttcttattc ttttaataaa caagagttat aataatattt 120
gtacgtaact tattcataac cgttatcctt gctgaatcat attctatcaa cattatagtg 180
tcattttgag ttgccattc acgatattgg gaattggatg caattttggg tctagaattt 240
ttttatcct agcatttatc tctttttttt tcaatgaaaa tcattgtaat tttgaagtct 300
gtcttgagaa caaatcaa attgagattaa aaaaagtcct ttttttgtgt tataggtatt 360
ggaattattt ttacctatg aattatggac taaatatgta t 401

<210> 22368
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 22368

agctctcttaa tccatataaa ccataccatg ctcttaacat gtaatattgt cttcagccat 60
 catttgaggaga gctagtgcga atctttctct atttactaaa tcatctatgt aacatctgta 120
 acaattttacg gacgtataat gctgccactt aacatgacat ctgatgatga accaattttac 180
 gtaaattgcta agcagtacca tggaatcatt agacgtcggc agtcccgtgc caaagctgta 240
 cttgatcaca aattgactaa acgtcgcaag gtatgattcc tcatatgggg gtatcccaca 300
 tatttttttca ctcatattaa tgaacattat agtctcagct tcaactggcct tgaaaaaaaag 360
 taggtatgat aggggtggtct ggcctaactc ttgtagaaaag tgatagatta tctctttcaa 420
 gcaacgc 427

<210> 22369
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22369

agctttttgag ggcacctcaa attctgangn catagcgtaa actggatccc atatctactt 60
 gataattcaa tggtagccat aaccctagcc aagggttcac aacctccatt tcttcgagaa 120
 tacgactcga acgcaacgtg tgcttgtcac ggagaagccc cggggcggtc cattgagcat 180
 ggtaggggtc tgaagcgtaa ggtgcaaggt ctaattgatg cgggctggct gaaatttgag 240
 gagaattgcg tgtaaatcct gacattgaca agagatgccca cacatggggc aattttgaca 300
 gttgtttgta tgtgtcccta atgactcatc aggggtttcca agtttatgcc attattgtaa 360
 accacagcta caatgttaaa tgaaa 385

<210> 22370
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22370

ctaagctcgg tgcgttgcg gtactcgagg gaccatgagg tttntgctgt ttcttgaccc 60
 actcgggtgt tgaagagacg gcatgggcat ctcttcttt cctttttgcc cctgtcgccc 120
 cgattctttt ggcattcacg tttgtggagg aaacgtaatc aaactttcct ctcttcaatc 180
 caacctcgat tctttccccg gcaaacacca gatccgcaaa gctggacggc atgtaaccca 240
 ctagcttctc atagtagaac actggcagag tgtctaccat catggtgatc atctctctct 300
 caaccatggg aggagctact tgtgccgcca aatcccttca tcgctgcgca tattctttaa 360
 aggtttcacc ctctatcttg aacatattct gcaattgagt accgtcaaga gccatatc 418

<210> 22371
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22371

gcacgcaagc tcattggaat aaggcgcgcc cgngaaggag gaactacgag gccaacagac 60
 catgacccaa atcaactatg ccaatgacac aagccaagca gaagcgttca caatatccaa 120
 acaaatcaat ttcattccgca cagacactac cctaaactaa tatgaacaga gtggaggccc 180
 aaaaccatgc acaagatata ttccacatcc atacagtgtc cactaccctc atacatgaac 240
 aaaaatctct ccggtgcgac acgaatacca ccgg 274

<210> 22372
 <211> 673
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22372

ggggagggga gcnnnnnnnn natttgatna cccanattt gatnnnccga tcacgtang 60
 nnnntcatnn cancannata ngngcnnnn ngnagnntcg nagnccang tatntcang 120
 nngngaggan gagtatacng nantngtttt tgtatnnann agagatanan aatanggnn 180
 ngnagtatca nacaagaagn nngaganntg aggggnngaa gatctntagg aggnnatggc 240
 gagacncca gagaactaac gntcgtgagg atccgtctac accacgtgat gagcgatntc 300
 ncgacntcaa gtacgcgaag caactcgttg atgtgtagtt actttactct tcgcgacgat 360

gctttctgat aaggcgtcca tagcccgagn gtattcgctt tcacaaagag cacattctgt 420
atggcgtttc accgctctga ttacgcacta ctatcgacat gggactacta cgacagtaac 480
gcactagttg ttggtgttct cgcaaagacc tatggaagct ccgaatgacc gtgatgtgca 540
tctgctacgt ttatcttcta tgagcaataa ggcgagtgga catttacgac attcgttcag 600
taggtgatcg caaagacttc aaagaacagt atctgagatg actattgctc taaagggtga 660
atctatacga ccg 673

<210> 22373
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22373

cgcnaacgg agtnnnncat tgaaccccat agcatatcct cgacactatc agaaaccac 60
ggaataactca agctaaaggt cgctccttcc actacgcgcg ttttaacaat tgtgtcacga 120
acngagtccg gcgggctcga cccacatccc gttgcatcat tcaagtgagg gttttatgga 180
gatgacaact cacctcacct ggtcgcccta ggaagaacat ataatggggg gaccaccatg 240
cccaatagcc ctctgggcaa tgatatgatg aaggcaggtg ataaggaagt tcaagacgtt 300
gatgtcacg acccttgtcc cactgaacag gctaggctaa tggggtaagc ccctaacacc 360
tgccctaccc atcctgcaca acctttttga aataaaagat tagctctttg tagaatcaat 420
gactattact aaaaaaagga cccgctacaa ataaagattc gactattatg aaactcacgg 480
tattatctgg atc 493

<210> 22374
<211> 374
<212> DNA
<213> Glycine max

<400> 22374

agctatttta ttgataggcc caccagtaat tgctgcacca gctagtaaat aactggcact 60
tgaagcatca cttcaacaa aagcattgcc aggagaccta ataggaaaca tgagtcttaa 120
tttcattgca ttttggtac taaaagtgat gtaacactaa aacatagaaa cctacttgta 180

cttttgacct ccatggacca agaacctatc ccaattacca ctgtgttcca cagaaactcc 240
 aaaacgctcc atcaacttca gagtcatttc aacatatgga acagaaatca gtttatcaac 300
 aatctcaatt tccacatcac caagagctaa aggagctgcc ataagcaaag cagtcaagta 360
 ttgactgcta actg 374

<210> 22375
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22375

ctaagctgtt atgtcctcag ggcttgagct ttgacttcta nctaantgat tcttaaaaaa 60
 atcatatctt tggcacttgg gtatatgcct tacttgggag cagccacatt tttctttaaa 120
 atatgttttt ctattttaaa gccttataat agcatgaaat tgtcagaaaa tgacaatttg 180
 tgggtggcttt aaaaatctta agagatcaat tacaatat ttacaagatc aacgacacga 240
 ttactatttt tttagtttag agacctaaat aaaaactcct aaatagttga gggaattaaa 300
 ttaaccttga atgaacataa acaacaact tttcacatgg atatgtaaat aaaaacacca 360
 atat 364

<210> 22376
 <211> 337
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22376

cagggcccat gagcttgagc ctgatacgcc cnaaaaacnc gcggaçcaga aagccccgat 60
 tttaaaatta ctgccctttg gggaccaggg gacttcagct cagctccccg aaagagccaa 120
 acgaacgggt acaagagaga ggaatccgag agctacagag gacagagcac attcacgaac 180
 ggggcccgcct ccggaccaga ggaatacaaa acaagcggca cgcaccgggg acgagacaga 240
 tggggtagga aagccaacgg gaaaacgtgc aatgtacacg cagggagggg ggacggaacc 300
 gagcaaacga cagtacaggg gggatccatg ggagagg 337

<210> 22377

cttgatagat tgtgaaggaa attacaagat cagaaacagt caaagaagtt tacctactaa 180
 agttacaata atgtgaaaaa taataaaaaat ctctcaatt accttcagat cctaagcaaa 240
 aacaaaaag caggtgttcc aaacataaca attatcatca agaagaaaac aaaactgggt 300
 tggaagcaca ttccagaccc gcaatgttga gaagcattca ctacgaagaa aaacaaaaac 360
 tcaaaga 367

<210> 22380
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 22380

tgggtctaga catgtctata gcattctcat gagctagttt atataaggag ttagaaattt 60
 tgtttgtctc tctataaata tgagaacctt gttggattaa aataaaattg gaaaataaat 120
 aaagaacttt aacctatata ctatgtgac aatctataaa atgataatca taacatttca 180
 attatataat cattaagaaa taagggtgga catgggttag gttgctcggg tttaaaaaat 240
 atttagattt aaccaaatta atattaatca gaaaaaaatt atatagaatt aaacaaacaa 300
 attatatatt atagaatcat acaacataaa aaagtatatt ttttctaaaa tggatataggc 360
 ttatgttggg ttgggtctcc gtacctagat ctgataattg aattga 406

<210> 22381
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22381

taagagcaat ntcttttttt ntcttatcat tnnctttgtg tngatnnaat ctcaacagtt 60
 ccatttcgta ttctgtaac ttccaaata gtgtagcaag agacatgtta gttaaatctc 120
 gtgactcagt aatgggtgtt accttaggtt gccattctct acttaaacat cttaatactt 180
 tatttatgat atcttcattt ggaaaaattt tcctaaaga tgcaagatga tttattatat 240
 gtgtaaacct cttttgcatg tcttgtatac tttcatttga attcattcta aataattcat 300
 acttatgagt taatggattt atcctagata tttcacatc tgttgtgccc tcatgtgtta 360
 cttgtagggt atccacat 379

<210> 22382
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22382

agcttggttat actattatgt attatgatat gaacaaatat gttaatgtta tctcattaag 60
 agataatata tataattgaa ctatTTTTTT tgttggaata ataaactatt ttaggaaaac 120
 aaaatataac atatgggtctc aaatatacta tgttgtaaaa tagtttttct tatgtgaagg 180
 tctcattgaa aaataaatag acttcagttg aaaataacta taaagtcaga aacaatcatt 240
 attgaataat gtttaattgt attagatcaa gaacaattgc ttaaataatgc ttaatttggt 300
 taaaaaattt caaaatttga gtctaatttg ttatttggtta taagttntat ttttaggtta 360
 aatttaattct atctgaaagt ctaact 386

<210> 22383
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22383

ctccaaaaag aattgcaaga gtcattgttag cgagatcttt cgattatgca atngtagtta 60
 cctttgggtg tcattgcctg cttaaacatc tcaacacttt gttaatgaaa tcttcattat 120
 gaaatatttt ttctaattgat gcaagatgat taactatatg tgtaaattctc ttttggtat 180
 cttgtatggt ctcatTTTga ttcattctaa acagttcata tttatgtgtg agagtattta 240
 ttctagatct cttgacatca attatgcctt catgggttac ttgtagtgtg tcccacattt 300
 cttttgcatt ttacaattt gaaactctaa aatattcatc catgcctaata gcagaggtaa 360
 ttatattttt gacctttana ttatattgaa cctttcttct ttcattctca tcccattggt 420
 ctctag 426

<210> 22384
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 22384

agcttgtatt tgaatgttga tgtttattca caaaaccaa atcgaaattc atcttttgaa 60
gcaataatac agccaacaga atccagctaa tggcataaca tgcaggacgg ctgttaaata 120
ccattatttg cccactctga accagagaga actcctgctt tgattttttg tatggatttt 180
gagatacacg gggagagaca cctctttgtg cagcctcagt tgatgccata gtcacaacat 240
gtgcagcttc gtcatcatta gcatcaaaca ttgactttgg gtttctctta ttaggcaaaa 300
cataattttc cctatcatca ggcttagagt cgttaactgg gaaacgaggg gtccttttcg 360
caactggcca aggtgggata cctgat 386

<210> 22385

<211> 425

<212> DNA

<213> Glycine max

<400> 22385

tctaaacacg ttaaggattg tgagtactta ttcaaatttt tatctattag tgcattgaggt 60
gcacaagtgc tagttgaaag ttcaatgagg aaacttcttg atttgtttta ttcttatctc 120
ctgtaagtgt tttgttaaga tataggaaca taagcatggg tagaacacct ccaagtgaca 180
gtggagactt atttttgaag gatactctac gcattcccg c aatgtcattc tatttcaa at 240
agtagtatat gtttccttac tcctgttg c tcaacatgat tttatagctt ttaagtatct 300
ttaatatagt tttcaatctc agtttcttgt atcccttcct tgacttgctt taatcagtgc 360
tatcaggcac cgttgttgac aaagtagttg ctgaactgga gtcattgcggg ttccaatgtt 420
tcatt 425

<210> 22386

<211> 333

<212> DNA

<213> Glycine max

<400> 22386

gcctttgcag gataacgcaa ggccttaacg cacctattca agcgccatat tgcgttctga 60
aaacctacat tattccaata acagcaaatg gagagcaaca cgatatccat aacaaggaaa 120
agcactggac ttgatctcaa ggtcaaaaat ctgaacaatc agcaatgcgt gaggagtatt 180

gcagtgagag agagagacct cgtttccaat ggagtgtgtg caatacacgt gggcacggcg 240
ggaagtatgt gagagtgagg aaagaagagt ctcagcaacc accaaaacaa caagcaaata 300
tgattaacat aacattgatg aagagcattt att 333

<210> 22387
<211> 398
<212> DNA
<213> Glycine max

<400> 22387

atgagattct ttcttggcat tgtatTTTTg cagattccag aagggtttt cttgtgtcaa 60
agaaaatatg ccactgatat cttgaagaag tttgcaatgt ctgagagcaa acatgtgaaa 120
agtccaattg ttccagggtt taaaattaat agagatgttg atgggtgcagc tgtggatgac 180
acttatttca agcaaattgt tggaagctta atgtatctta caactacaag gccagatata 240
atgtatagtg tgagcttaat tagcagatat aggtcaaac caatagagtt gcatttaca 300
gctgctaaaa gaatattaag gtatttaaac ggaaccacta gctacgggat attctacaag 360
aaggggagggg cagaagactt gtttgctttc acggattc 398

<210> 22388
<211> 385
<212> DNA
<213> Glycine max

<400> 22388

agcttgcaac atcagttaca tgaaaaactg tctttgcaga gacagagagg gaaagatgtg 60
aaaacacagt tacctagggg aattttgcgg tctgtccga gtcaactaca ctagtttggc 120
actaggtttg atgacatgtc aacgagttac ttacagaaat gatccaacaa ttgaatcagc 180
tcggctaagg gtctggtttc cgattcaacc agccgagccg agccgagttt aataacactg 240
attgggaggg ttccttactt agtattgaaa atcttgcttt caatttgata gtaggtagta 300
aagttcttct tcatggagta tgtctcatta atattctccc gcatttcaca aatggaggta 360
gaaaacatac aattacagct tatTT 385

<210> 22389
<211> 424

<212> DNA
<213> Glycine max

<400> 22389

tgtcgggttc aacttcaatt aagtgctcgg ggcatacctat ggactgtgcg aaaagggtca 60
ggtcatacaa tactacgcat ctttttaaagc acaaagcgag gatcagaacc tcaaccctac 120
gttcttttaa aagactgcga tgggaaaatt acagaggaca ggaatccctg ggggaaacca 180
agaagaacac aaaaaataa aaacatgcag cgacttcctt aattgccccca gatctcaagc 240
atagtatcgc ttgacaacgt cagagtttac gggatgaagg agctccttgt catccatggt 300
ggcgagcacc agggcccttc cggagaaagc cctttttaca acgaaaggcc ctctgtagtt 360
cgggacccac tttcctttgt tgtctttcag agcttgggag actttcttca gcaccaagtc 420
ccct 424

<210> 22390
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22390

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cactaaaata tgatttttgc gggccgagta attggaacca caaccttggc caaaaactaa 120
ctgtatctat gaattagggg agtgcattta gcaactgcaa tgttgtgaag gcttttttga 180
gtttttcttc actgcaatct gaaaacattt ttcattctgc aacgcttctc tttatctcga 240
gctcttcttc acctttattt tgcaatgcat tagccgcatt ctttatgtag gagaatgtct 300
atggagaaaa tgagattaca ataataaaaa ataacagttt tatttgtgcc tcagtacact 360
cacaacagta aaagagccac tagctag 387

<210> 22391
<211> 423
<212> DNA
<213> Glycine max

<400> 22391

tcaggcttct gacctagcct tctcatgaa ataaagtata taatatttaa ctgttgccgg 60

tcaccttgaa aataacagag attttcttct cttgtcctt tcaaatacct gtttccaaat 120
 attaaaacca gtagaaatgt agaatccaga tttttttttt ttggtgacgt agaatccaga 180
 ttataatcaa actgtgtttg tagcctgctg taaaacttgc ttggagtagc cacattcaaa 240
 atagaagtga tcatttgttt caactgctcc atcacgggtt acatgttgaa tccatcaggc 300
 atgtaactga actgtgggat tgtttttgat gacttgaata tggtttttta tgttgataca 360
 agtttattta ttgttgaagc atgtatgtct ctgcattagt ttacgtatat cttgtatgat 420
 tac 423

<210> 22392
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22392

agtttcttat tctcagctga tgaagatgaa ttcggtggcta cttcatgcac tcctctaattg 60
 acaatagcat catttctggc actaaattgc tgggagttgg aagccatctt ctcaattaaa 120
 tttttggctt tagcaggggt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tgttactgag tccttcataa aaatattgga ggagaagctg ctcagaaatc 240
 tgggtggtgaa ggcaactggc acatagtttt taaatctctc ccaatattca tattggctct 300
 ctccactgag ttgcctaattg cctganatat catttctaatt ggccgtgggtc ctggaagcag 360
 ggaaaatttt tt 372

<210> 22393
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 22393

ggacctatca atctcagcta gagatgcccc agtcttcac ccttgagatg atttgaagta 60
 ttggccatca gaattgccat tccttgatt ataggggtga accgagctca tgctattaca 120
 ataaggttca tcaagtcagg ttgaaatatg gaagtaacca ttctgcaaac ttggggcaaa 180
 agatgaatcg agtcacatca ctgcttggtc tactgcccc catatttatg attatcgatg 240
 tccttggttac ttacagtttc accttgacaa agatgtcatg gaccatgttg aaaatctaaa 300

ttgattcaac cccatatacct gcgtaaaaat tctcaatact attacatcat tcgcatgcat 360
ccatgctttt cattggtggc attgatcata tgattct 397

<210> 22394
<211> 373
<212> DNA
<213> Glycine max

<400> 22394

agcttcctta gaggccaact tcaggctcac gaattgcaag tccaccctcg caaagcctcc 60
accctacacc ctcgcaaatac tgggtgtcga tgtagaggca tccatcggag gaagagacag 120
tggtgcacag tgtcaggggt gagccaacag aggaggtgga aggaccgact tgatgaggag 180
gaagtcattg ttggagtcct agatttgagg ggagagagaa agaggggaag gcgaaccact 240
tgtcatcgag gttgtcatgg aggtgagagg agggggcaag ggcaagaagg gttcggagta 300
gaaatagaga ctgcgaagg tagagaaaga gaaggaagag aggctaggat cgttggattt 360
gagagagaga gag 373

<210> 22395
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22395

gacactatag acaactcccc cttggacgaa tccgaaccta agtttctgat gtgtgtccat 60
aaaaaaccag acactatacct acttttgctg tcccttgctg tctctctctc tctctctctc 120
tctctctcta atccaacgat cctagcctat cttccttcgc tctctctacc gttcaccgcc 180
tctatatcta ctcggaaccc ttcattgcct agcgctacct cctctcacct ccatgacaac 240
ctcgatgaca agttgtacga cttgccctct ttctttctgc ctccaaatct aagactccga 300
caatgacttc ctctcatca agtcgggct tccacctct ctattggctc aaccctgaca 360
ctgtgcacca ctgtctcttg catcgatgga tgctctaca tcgacgacca gattt 415

<210> 22396
<211> 230
<212> DNA

<213> Glycine max

<400> 22396

gggtatgatg tttaattaag acctctagag cctcaaaact tgttcctggc ccgaaagatt 60
atcatttgag gtaatataac tactgaccat aaacttatac tacgagaaat aagtgatacc 120
accttcaaaa gtcgaatctg atgttggaag gcaatacat cccaataga atcgctccgtt 180
accacagcct accagaacaa tatatggaat gtatagcgat aggatcatga 230

<210> 22397

<211> 196

<212> DNA

<213> Glycine max

<400> 22397

tacctcgtgc ttcatagcct tcaaaaatgc ctcttaacgc tcccaaaaat atcattgggt 60
gtgaactcca ctcaactagc acactgctgg agcaagaatg ttcactttct agccatcacg 120
atgggataac acacaaattc attgcgagga tccattatga ggagctcatt ttgaagaacc 180
tcatggatga acacta 196

<210> 22398

<211> 375

<212> DNA

<213> Glycine max

<400> 22398

agcttatatg aacaaaattg cctcaatcat ttccaaatat gcatgtgaat taccaagaat 60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120
attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240
aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300
catgcaaagt cgttcatgca cacaaaattg acccaaaata ttaaactaaa aatccgacga 360
aactaacaac attaa 375

<210> 22399

<211> 414

<212> DNA

<213> Glycine max

<400> 22399

tctaaatctc agatagaaga gagataatta tttatgttta attctaaatc ccccataaacc 60
agctttccac taatttccta cttatcatat gaagtagaag atagttaaac attttacgtt 120
tcacaaatat taaattaaat gcatctttta aatattttgt tacaagtata aggaggatta 180
atatgatatt gttttagata atttatacac ctccctagtga agaaaattta agtaccttga 240
tttctatttt ctttattcta ttttcataga cggcgttgta cttatggctg gagggaaatt 300
gtgatgggtga aatgtggaag agggagtgtg gtttaaaatt aagattcttt tcgcatataa 360
ttacatagag aaagttatga tatatcatga taaaatataa ttatatttta aact 414

<210> 22400

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22400

agcttggacg atgtattcga ttagatccg cgtgatgaca ctgctaatag aggcccaaag 60
cctattgaag aacttttcaa actataactc agacccaaac cggggtagta tacacagctc 120
agccgacacc tcaccagcca tgaacataga cacatagtcg ataccttaca taggaacaca 180
aacctatttg catggcagac atctgacata tcgggtatcc accccagcat tatatgccac 240
aagctcgcca tctgtctcca ggccaaatta gtgtcatagg agaagaggaa gatgggagaa 300
gaaagacgta gattggtcag agaggaagta gataagctcc ttatagccaa ttntatccga 360
gaagttaggt actccacttg 380

<210> 22401

<211> 409

<212> DNA

<213> Glycine max

<400> 22401

ttagacttat atctattctc aatatactac ttttaatgtt tcctagcatt tatgtaggtt 60
tttgatttct ggtgtctata gattttgtgt gaatgaatgg taaagcttaa aattttgaga 120
ctagctttac atagcataat aacaagctcc acacttcaag catgtacaca attcaactta 180

tgagtagttt agttgacggt gtctaggggtg caaaagtga actactttcg caccctatga 240
aagtttgtgc aaaaaaaaaa aagcaattgg aaccgtccga ttagttttta ccatatcgaa 300
tagtggagat gtgttcattg ctaccggtag taaatggatc cctcgagttc tatgtcagct 360
ttcctcgaac cgcgattgaa ggtatggagc cctcgagttt ctgttctgc 409

<210> 22402
<211> 351
<212> DNA
<213> Glycine max

<400> 22402

tattttgatg agatatgcag cttcattcgg gcaatgataa atcatgtggt tatgacttta 60
tgcattgtatt cataagtaaa gaatctagtt gaatgcaatt tcctcttata gcttattagt 120
tgtgagaatt agtcccttgc tctgattagt ttggactact ggatatactg gttcttttac 180
cctgcatggt gtagcaacat gcaaagctct atctggtaga aagcctctaa tggctatgac 240
acttttctat atatttgtat taaatctttt taggggttatt gtgggtggcag aggaggccta 300
cggtcattaa ttaagtctac tctttaacta taattagtgg ttcttggggg a 351

<210> 22403
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22403

agctcgcccc cgggatgctt agagttttatc gcagcaatat gtctttgggc ncgaaacttt 60
tctgagtgat ttcaatatgg agcagaatga tcgcccaaat atgtacgttg acaacaaagc 120
tttcatagct atttcccata atcctgtctt tcatgggaaa actaagcatt ctaatatcaa 180
gttgtccttt gttagagaag tacacaaaag tggacttggt aatcttgtct actgcaaaac 240
agataaccat gctgcagatc tgttaccaag ccattgccag ctatcaagtt tgagattctc 300
atacagaagt taggacattg gaaatcttaa agcactgaga agtgtaaga aactgctttt 360
ggactgcacg tggatcatta ttgtccacct 390

<210> 22404

<211> 311
 <212> DNA
 <213> Glycine max
 <400> 22404

gacctataga atactacagc ttgagggatc atatttttcc actattttaca ctgctctttt 60
 tattgcacta catatgtgag cccactcacg ggtaaagggtt aagtttatca taatagcggt 120
 tataaagaac atgtgtaggg atccttagag gattaacttg cgatcaattt tgaaatgttc 180
 attgaattat aactcttctc ttatgattct aaatatgata ttattgtggt tgatatacca 240
 attgatgtcc tgatgtgaat tagataattc aattgagtga tctcggtagt tctgcatttt 300
 gacctatgat t 311

<210> 22405
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 22405

agcttttagct ctcagcttaa actcccttca caaaatctga tttcaggctt aaataggtgg 60
 ccttgttcgt gctcgtgcgc ttagcgcaat tctgaaccgc ttagcacaca ttagtgaatt 120
 tcgacttagc gcgtgctttt ctcgctcaac ggatggactg aagcgggtgcg cttagtgaga 180
 tgaagtgggtg ggcgcagcga acctgtacaa ctcacccctt tccagattct tctcgcgct 240
 tagccaatga gtgttgcgct tagcggatgc tagctaagcc agcagattgg cttagcgaga 300
 aggtgaaaaa tagcactttt cagagttgca taattaacct gaaattgaga gaaaatgatt 360
 attaaacaca caaaatggaa gtactaag 388

<210> 22406
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22406

ntgaaaaatt cggctttggt cagagtctct gaagatgtgt tagttacttg tgttacaagc 60
 atttacgttt agttttatga gaaatgcagt ttcattcggg caatgataaa ttatgtgttt 120
 atgactttat gcatgtattc ataagtaaag aatctagttt aatgcaattt cctcttatag 180

cttattagtt gtgtgaatta gtcccttttt ctgattagtt tggacttttg gatatagtgg 240
 ttcttttacc ctgcatgttg tagcaacatg caaagctcta tttggttgaa aacttctaata 300
 ggttatgaca cttttttatt tattgttatt aaattttttt agggttattg tgggtggcaga 360
 ggaggcctat ggtcattaat taagtttact ttttaactnt aattagtgtt tcttgggggt 420
 gagac 425

<210> 22407
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 22407

agctttaacc aaaacctgtg agagtgtgat cttaaactgt gatcgaacga cttgctatga 60
 gtaataatct ttgcatcaat ctcttaattt tagaatgaaa tgtataaatg aggacatgat 120
 ggaggccatg attgtgcata cacaagcctt ttgacccaaa agcttacctt gaatgataac 180
 tgtaccattt gcaccctttg tgagctgaat gatgttgtca ataattgaac cctgaaccta 240
 aatgattatc tccagatacc ttgcttagat tctaggagag catatgggtc aaggcaaatt 300
 cacc 304

<210> 22408
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22408

tcggtgaatc tttggacaat gttgggctga gtaggtatgc cattaatggc cattgaactt 60
 gcaaatttgt agctcctttt tcatttcagc ccaacaatag tttggttcgc ctgngccaaa 120
 gtgtggtagg gtgaagcatt aagctcgagg gttatttcga accagctaga attgtgttct 180
 ggctgggcca gagcttgaca gaaaggagaa ttctctccag gggttttggc ctgacccaaag 240
 ttgtgtttta gttgggctag actgtgacaa aatagagcat taaactccaa gagtgtttta 300
 gcccatcaag aggttgtgtg attgggacat aaaagtata gaagggtttt agccagacta 360
 gaatttgttc aattgggcca aaaatgtgat agaatgggta acttaagttt acaggagtta 420

<210> 22409
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 22409

agctttgcct ttagggcttg tacctcatca ctttcttccg aagctttaac ctcacgtct 60
 ctcacagtct ttagatttgg gagccaatcc aatccttgtg ttcggaactct cagccactta 120
 tgatagccgc cgatgatccc attactgctt cccctaagct ctctgtcctt tcttcacgcc 180
 gcatcccatg ccttgccaac tcctttgagt accctcgcgt tgtggtcacc gaaaccccg 240
 gcgatgaaag gcgtgatgct ttctgtctgat ggcactcctc tcatggggta gccaaagtgt 300
 cttatggcga ggacgagatt ataattaata caacccttg ttccatcaag ggaacatttg 360
 gacatccttc gcatgaagat agaatcct 388

<210> 22410
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22410

tgtgcaaadc aaatcactcc tacatctcat ctctagcttg cattttcttt ctttaccac 60
 tcctcacgtt tggtttttta gggaaaacac cataactaaa cgcgccgcaa gggatcccta 120
 tcgcaccaga tccaaatcta gaacgatggg tgatcaagag gagacacagg aacagatgaa 180
 agccgacatg tcggctctga aagaacaaat ggcctccatg atggaggcca tgtaggtat 240
 gaagcagctc atggagaaaa acgcggccac tgccgccgct gtcagttcgg ctgccgaagc 300
 agacccgact ctcttgcaa ctacgcacca tctccccca agcatagtag gacggggaag 360
 ggacgcactg gggcacgatg gcagccctca cctgngatac aaccgagcgg cttaccctta 420
 tgg 423

<210> 22411
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 22411

agctttggtc tttgcagatc ttcacacagc aaaatctctc aaaactcttt ggaacttaga 60

cctttctctc tctagaatca ctagacatgc aaagcttcag ctctcagccc aaactccctt 120

cacaaaatct gatttcaggc ttaaataaggc ggccttggtc gtgctcgtgc gcttagcgca 180

attctgaacc gcttagcgca cattagtga tttcggctta gcgcgtgctt ttctcgctta 240

acggatggac tgaagcggcg cgcttagtga gatgaagtgg tacgctcagt gaacctgtac 300

agttcatctt cttccaaatt cttcttcgog cttagccaat cagtgttgcg cttagcggac 360

gctcgctaag ccagta 376

<210> 22412

<211> 425

<212> DNA

<213> Glycine max

<400> 22412

tgcccaatgc ctggtgttgg cttccatctg ttggttattt gtcatttata agcactgac 60

tcaggctcga aatagccaat agtgggcaga tgtgcaaaca cccaaaacta taaaaaaaaa 120

acatgggtcaa aaaaattaat tacggtaata aagaaaaaac atagataatc acaattaaca 180

attatcttact taccatgact aatgacatgt aacctccaaa tgatcatgaa cctccaacat 240

gtttgctggt gtactagctc gcatatgaga gatggtcgta tgggtatgcc aatgcagaga 300

ctccccaagc ataccaatga caaccatcca agttgttgag gtagtggagg taggcaacat 360

ggatgtgagt cgaggacttg ttggcaaata tcatattacc aaccaagtgg aaaagataag 420

ttgtg 425

<210> 22413

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22413

agcttttgtg gccatgtata cactaaggct tagtgtttgt ttccccatt caatcaaccc 60

agtgtttcca aaagaatgct cctttatcat gtcacgcata catccaagtc tatttaggca 120

ttcgggaaaa tctttcattg cgttcaccct tcaggcgcac acattttggt tttcaaaaac 180
 cttttttatg tcatgatccg tgaatttccc aaagaaaaca gaaagtcatt ctttttcaaa 240
 agtgtgttgg ctttttagnt ttcttttttg ttttcttttt taatttttag aaagagtttg 300
 taatctgagg aaaaaaaggc gtgtaaataa aaacaataca caaggcccta ttntttttct 360
 acttaagttt ttttttattc a 381

<210> 22414
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 22414

taacaataat aacaaaacaa tttatatgca gtttttataa cttgttactg aaatttttagt 60
 tacataagta atagtgcga aaattactat tagtaactaa aaaaattaat gcattaatat 120
 ctctagtga tcctaagatt tttttttatt ttgtaattag ttttattaat ctagtaaaat 180
 tatattttta tccttaataa atatctaatt tttatatatt tttccttaat aaatttttat 240
 ttttatattga atttctgata aaaaattttt tttatcctag acactttttt taactctaatt 300
 aaattagtta attgtatatt ttttttctaa taaaaaattt catttggtat tagtcgaaag 360
 taaaataaaa ttctctaatt tatcaaaaac taaaacaaaa tattaaagac aaaaata 417

<210> 22415
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 22415

agctcgatag tttacttata gtcacccccg aaactcccca accttcggaa ggaacatcga 60
 gaatggtgac aagaagtacc tccaaattaa ttaatgttat taatgaaaat agtgacaaaa 120
 actcaaaaaa cgctgtagaa gcaaagcttc atgatgaatc aagaatgatt caaagatgtc 180
 ttgatgataa caaaggtgat gacaaaaagc tcaaaggtca atcaaagaat gagttcaaga 240
 aagatagaat caagaaagaa tgagttcaag atgttcaaga tagaatcaag aacacttcaa 300
 gattcaagga tcaagcatcc aagaatcaag atcaagattc aagactcaag attcaagatt 360
 caagaatcaa gagaagact 379

<210> 22416
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 22416

tataagaaca aaattgcctc aatcatgttc aaatatttat gtgaataacg acgcatcaac 60
 aagaatcaag ccaaggctat tgcgctagca ctcaatgggg caaaacacac caaattatta 120
 tgaatatgga tggctcaa at tctcacaag gtaagatcat cactttcaaa tcgagctatc 180
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacataat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaagaacatg 300
 caaagtcgta cgtgcacaca atattgaccc aaaatattaa actaaaaatc cgacgaagct 360
 aacaacatta acaaatcatc acatctaaca cattaacaaa accaacaatga ctatc 415

<210> 22417
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 22417

agctttcctg ttggatcaag tggcctcaga ataattaaga aggggggggtt gaattaatta 60
 ttaacgtgtc ttgactaatt aaaaatctat cattcttaat gttactagat tcaattaggc 120
 ttttactact aagtcaagaa agtaaagaac agaaatagaa acttaaccaa aagtaaaagc 180
 gataattaaa agtacgcagt ggaaattaaa gagtgtaggg aagaagaaga caaacacaag 240
 atttatacta gtttgaccac aaaccgtgcc tacatccagt cccaagcaa cctgcgggttc 300
 ttgagatttc tttcaacott gtaaaatcct ttacaagcca aagatccaca tgggatgtac 360
 cctccttgt tgatgc 376

<210> 22418
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 22418

tgtcaagccc tttagcctgg ataagtgttg tccaggctac ttttgccgtg ttgtcccag 60

tggacatgct tttggttttg taggggaggt gtgatgtgca agttgagga cgtccatggt 120
tctaattgatt atgccctttt ctgattgttg gaggatgcat taaagacaaa cattacattt 180
tgtcttttgc tataggtgtg tgcagcgcac acacaatact cttgtatatg tgtcactcat 240
ggagtgggca cgtactgaag acatggtgca tgggtgagta ggggtgtgtc atggcgcgaa 300
gaattatagc atcatttttg ctactaccag ttactgaaga gtccgcctcc acttttatatg 360
gaggggatgc ttgtattgca atcaactgtca cttctaaatt t 401

<210> 22419
<211> 374
<212> DNA
<213> Glycine max

<400> 22419

agctttatct gtcattgctg tgatcctcgg actgatccct agagtctatc ccgtatcatc 60
attattagca ctttataact ttatgtttct tagcatttca gacttcatgc ctatgggttat 120
ttaagctctg gtacatttta gtttttgta cattaccttt aaactattct gtttgaatgt 180
ttaggacttg gtactttcaa ttattattaa tctttctatg gtactactat attatttggt 240
taggacttgg aactttaaat tatttgaagt cttgtgtatg gtttttctac tccttccttg 300
tctttgatgt tgccaaaggg ggagaaatag ctaaaaggta acgtgatctc tttgttgga 360
ttatttgaat atat 374

<210> 22420
<211> 410
<212> DNA
<213> Glycine max

<400> 22420

tgaacaaaaa ctggtgagag tgtgatctta cactgtgtgt gaacgactag ctatgagtaa 60
taatctttgc atgaatctct gaattttaga atgaaatgta taaatgagga catgatgaag 120
gctatgattg tgcatataca agccttttga acaaaaagct taccttgaat tataattgta 180
tcctctgcac cttttatgag ctgaatgata ttgtcaaaaa tttgaaccct gaacttaaat 240
aattatctct agataccttg tttagattct aggagagcat atggttcaag gaaaatttac 300
tccaactttg ggggagtgga actaatttgg atgcaaagaa agagataaag catcagcaca 360

cacaacacat aagttgtgtg ttaaaaaaag aagaaaagaa agcaaaaaag

410

<210> 22421
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22421

gcgaactatg aaactcaagc tgagtctgca tgcattctat ngattgttaa tgtattcctg 60
ttngttattt ctacttaatt ctgcttaaca aaattaagtg tttgttagca tgacgaatag 120
tagatcgagt caaaagtcac acactaacat catctaatta cacatgtaat tagttattgt 180
tggtgaagtc acttctttta tataaagtg ctgtgtctat atttttatta cacaaacttc 240
agtatttagt ttttttaatt ttaaagtta tttgaatttc tttactttta cttaatctcc 300
tattaaactc cattattttt aaaattattt aaatatctaa acaaaaatta gcctaaaaca 360
ctaaattctt ctcccagaat tatcatcaa ataaaactct cattatttta aaaaaaata 420
cccact 426

<210> 22422
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22422

aggtccgagn acgtgaccct ggaatgaatg atgcatngan angccggnga annagcccg 60
cgcgccggat acgtagagct gttcgcnggc atttactgn attgtgggaa cccgnccagg 120
aggcactaag acgggaccgg gcgaacacac acataaccna cccattgac aaaagccagg 180
caaaagcatc caccatatcc caacaaacca ataccattag gcgagaaact acctcccgca 240
aagagagaac aagaggcgca taaatctttg caccaaatg agtgagggtc caatcaggtg 300
ttacgaccct catacaatag ctaacaacgt caacggcatg ggcgaccaac catggagcgt 360
cctgccaaac taagtgcggg atccaatac agaaatttca gtttgacca agggagcacg 420
gtacgaacac tcggagcacg acaaatacct ccccttgccg gacacg 466

<210> 22423

<211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22423

agaagaccnn nggtgancn ttgaaccttt gatgatctat ttgannncgn gaccttagaa 60
 acacagcngg ggcaacnctt attctcaatt ttaacagngt tcttgacagg ggcgcggaga 120
 tccggaggaa gtttgaggac aactaacaga aaaacacgcc gctgagtgt ttagtaagcc 180
 ccaggacaac tgaaagcacg cactcgaagg ctaagaagaa tctgacgaac atatggatgt 240
 tactgagcaa cggaggacat gaacatccga cgatgtcaaa tcagcaaccg caaatgactg 300
 aagatactga ggggggtccg ccacaatgaa tcttgagtga tatctagcga aatgccacac 360
 atcagagaat acacgggggtg gatcgacttc tcaacgtatt ttgagccaga aggctcatat 420
 atagccactg agaacttatg acaaatgagg atctaaaatg cacg 464

<210> 22424
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 22424

agcttcttgg aagaatcctt tccactttt tcttccct tggcctttga agacaaggcc 60
 ttaccatcct tctttttctt ttggttttct agtttttctt cctcatccct cttatctttc 120
 atagttattt gatctttggc tacctgtgaa ggtgtttaaa gatgcaaaac aaactctgtt 180
 ccaagatggg tgagggttat ctcatagtt aggccattat agattatttt cctatgatat 240
 tgccatggcc tacctaagag aagggtgtct gcctccataa gaactacatc acaaactcact 300
 tcatecttat atgttccaat ggagaacggc actttcactc tgtgattgac tatcatctcc 360
 ccttgctcat t 371

<210> 22425
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22425

ctcncgattg aacctttgan ntcgtgcatt gagcccttga agnccgcgan gtttngaagc 60
 tacccttggg gtcactgggt tttgttgcgt ctcattaaaa gatataattta aaacaaatga 120
 ccggccgaaa cttattttct tgatgattaa ctgaggttac aacacatatg atctattgaa 180
 ttttatttta atggcgatta aacgagatta ccacacaaac tatcgggtga atttcaatct 240
 aacattgatt taacgtgaat aacacttaca tgatccatca aaactcgctt aaaacacaaa 300
 aaaaaatcac ttatgggtga agaactaaca tgaagacatg cctagccagg gagggcacc 360
 taagggtgat acaatgaaat caagggtgca aaataaaact taccgggcaa agatccaaga 420
 acgataaaga acggaccaag aatgggtcacc caattgtcgc caaaacatt 469

<210> 22426
 <211> 143
 <212> DNA
 <213> Glycine max

<400> 22426
 agggggtgat gcttctatgt tggcttttgg ggcttggatg gtgtggatga tgtacaacta 60
 ttgtacgact gagggaaagc ttgcatcttg gaccccaagt ctctcattt cttactttt 120
 ttcattccat agcaagttca ttg 143

<210> 22427
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 22427
 tgcactcggg agtgtagga tatatttcca cctattaac ttcagctacg aaagggttta 60
 ttgacaacga ctattcggga tagtgctcgt gttttttgtc ctagacaaaa tggtcactaa 120
 gatttaattt ttagaaaata tgcattgtgc ctatatggc catgtctttt ctggtggaga 180
 ttagatatat ggtatttgct tttttctttt aaagagagac gatataataa tatatttttt 240
 aatacattta tttctaatac aatttttatt atttattaaa atttattaca aattataaaa 300
 ctttgaacat tttacttctt atttaataaa caatactcat gattctgtaa tctgtaataa 360
 attttaattg ataataaaaa tctgttttaa aagacacatg ta 402

<210> 22428

<211> 385
 <212> DNA
 <213> Glycine max

<400> 22428

agctttataa ggcggtttc tgtagacaaa ggtcaagcgt tcgcatatg cgaagatgat 60
 atttcgagta ctttggattt ggtacgacta tgccctcctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca actagcataa tgtaaaccctt tacggtttta 180
 aaagctctat agttgggcct aggctttaga gtttttcctt ttgttaaggc tttgtgtctt 240
 ttgtttttga atttataata caaggatctt gcttcatctg ttcttgggtct ctacccattc 300
 tcattcattt gcatgtttac ttctttttct gaaacggcag atccgatgac gaggcccccg 360
 aaggactaa tacctgggac ccgtc 385

<210> 22429
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22429

tgattatgat ttgattntag ttntggtttc acttggttat tttccatctc attaaaagag 60
 aactttcaaa gtaaataacc ggttgaaact tatttttttg atgattaact gaggttacia 120
 cacatatgat ctattgaatt ttattttaat ggcgattaaa cgagattaca acacaaacga 180
 tcggttgaat ttcattttta cattgattaa gtgtgattac aacttaaatg atcgatcaaa 240
 actcgcttaa aacaaagaaa aagatcactg atggtagaag aatgaagatg aagacatgca 300
 aagcaaggat ggaccctaa ggggtgcatag aatgaattca aagcttcaaa atagaaaact 360
 aaccgggtcaa agatcgaaga acgataaaga acggacgaag aatggtcaca gaattgatca 420
 c 421

<210> 22430
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22430

agcttctgcg aaacgattca tgcaacttca gaattctact ttcctcctct acagaaaatg 60
 tttgtatatt gagatcagct ctaacatagt tttaaactag tgaacaccaa tttcatgaaa 120
 accattttca gaatgctagt gttcatttca atttgtactt tgaaatagtg aacaccataa 180
 ttgtgtcgta cttgatcatt tacctcacca acaaccaagg cctctcacia gctaagggtg 240
 ctccgcacat taaggccctt ctcagattaa tttctacat ggctcttctt ctcttccacc 300
 tcttttttca atcatcaaca cctctttctc agattaattn tagccttnt ctttgttgtt 360
 tttcaagttg gtttgttggg gattntatt 389

<210> 22431
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22431

agtctccttg caaggaactt cctatggngg ggtgtttttg gcattttaaa atcccttggg 60
 tgaaatggga agtagtttgt ctctctaaga ggatgggggt ctaggaatca aagatatttc 120
 taaattcaat acagctctga tgggtagatg gatatgggct ttatcttcta atcataatca 180
 gctgtggggt agaatcttat tgtctaaata tgggtggatg tcagatctta gcagtgggag 240
 ggataaatcc tggcagtctc attggtggag ggaccttcga aagttatatc aacagcctga 300
 gttcagaatt atccagcagc agatgggatg gaaggtggga ggaggggaaa aaataaaatt 360
 ctggacagat aattggttgg gggaagaata taaacttgaa cagcaattca atcagcta 418

<210> 22432
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 22432

agctttcttc actctctcct catttatgtc taagtgtgca taaaaaaact atgtctaagt 60
 gtaaatacaa ggtgggggtt tatectaacc tttgtatttt aagttatcta caacactatt 120
 tgccacacat tatagcgtaa tatgtcttcc ttgccaaaca tcttggcatg gtgttagtgc 180
 agtccgtgtt tgagtatgac aacatatgat gataacatcg ttgagcctct ttgacatttc 240
 aagaagggtg tgcctcttga catatctaca tgtctgtgtg atttattgcc aacctatctt 300

gttaggtatt agaggtaggt atacttggat gagaatgaat gggcaatctc tatagaggtc 360
 atacattgta cttgtagact tgtcattg 388

<210> 22433
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 22433

cgaagattag taggagtgtc aaccactggg atcgatgtgc tttattattc atttgtcatt 60
 ggttgaatat tcaccactca aattagtatt tagtttgggtg gattgggtcat attgagaggg 120
 tttatccata tttgtgggtca attcacaaaa tccttatcct agttgtgatg acctctaaaa 180
 cttatttttt gattttctta tcgaggattt taaatcctaa gcaaagggtga tcatcatcga 240
 ggacgggtgtt tgacgaaaaa ttgtctgtgt tttaaagtta agaagttcca gaagaacaac 300
 ttagttgaat ggaattgatt attctctagc aatgaattaa gacacggaaa tacaatcatg 360
 caagctaata atcaacaatg taatttttca aaacttcatg tgcattgctc atggaaagaa 420
 aat 423

<210> 22434
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 22434

agtctataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taggacgcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaatg 120
 attataatga tggatgggtc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt caaagaaaaa 300
 catgcaaagt cgtacgtgca cacgaaattg acccaaaata ttaaactgaa aatccgacga 360
 aactaacaac attaacaat taacacaact a 391

<210> 22435
 <211> 402

<212> DNA
 <213> Glycine max
 <400> 22435

tgatttgtga catattgctt gacttggttt atgattttac ttctttctgt gtggaggtta 60
 aacattgttc atttgtagc ttctgtcata agtgggtaag ccttagttat tgctgattca 120
 ctaagtgttt gtgaaaagtc cttatagaag acaaattttg tgattcttct attttgttga 180
 tgtaagctca tgtctgagat gattaagcat tgtttaagct tttgccatag atgggtagca 240
 ttgaatcggt gttttgcttt tgctcttgat ggtaagcat cattgcttct cccaagtggg 300
 taaactttga agtctcggtt ctgcttggtg gctaagggtt gatagcttct tggattgatg 360
 attagagctc ttgtcaaagc accttggttc tgattcgctt ga 402

<210> 22436
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22436

ttctgtttga aaganaatta gtaattaatt aatataatta aagttagaaa ttaagtgggg 60
 gataattaag gttgattaat gatgatttag atttcataga attataaagg ggtaattaag 120
 gagtgaataa acattttaat tcctgtcttt gtaccattt tgcaaatcaa tctttatctt 180
 tttgaaatgt aaaaaatagt tcatatcttt acatccgata taaaataag tccctactgt 240
 taaaattcaa tttccactgt tagtcatata tctatgtgat aagtcttagt tcatgtaagc 300
 aaacccatgt aacaagtatt tggactgaat tgaaaaatta tgatacgta agataaacia 360
 atggacattg cg 372

<210> 22437
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 22437

tgtgcattgc aaattctgac cattgcccac catgactcgc aagggaatag aggtggtccg 60
 gcatggaagg cgcaattgat tgacgagatc ctgttgatg aagttgtggg tattgccact 120

gtccaccagt accacgacag ggtggccagc gagcaggccc aataaacgca aagtctcttg 180
 gggcaagatg acccgctaag gagtttagac ttatttgggt cgggcccggg tcaagaggct 240
 ccacaggatc aagcgggtca ggaggcgggt tagttggcac tatatgagga gggggttctc 300
 gtcttcgtcc atgattagca gaaaaaccct agaggcaciaa tgggtggcctc tatggtatct 360
 ctggttcgag c 371

<210> 22438
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 22438

agttttgcag atttggctcg cgccagtga aggatcgatg tgggtctgaa aaaaaaaaaa 60
 aaaaaaatag aacgcaaatt tgatcatcct actaggacga ctgataaaac tggggcaaatt 120
 aaagaggggtg aggataaagg agaaacccat gctgtgactg ccattcctgt acgaccaagt 180
 ttcccaccaa cccaacaatg tcattactca gccaataaca aaccttgctc ttaccaccca 240
 cccaagtatc cacaaggcc atccctaaat ctacaaaaaa gtctgtctac cgcactttca 300
 atgacgaaca ccacctttag cacaaccaa aaacaccaac tgtcgcaacc tacccttcgg 360
 c 361

<210> 22439
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22439

acctagcaag actcacgctg gaatcateta cccgatttct gacgggttatt gggcgattcc 60
 agaccaaatt gctcctaaga tgataggact gacagagacc aagaatgaag aggatgaact 120
 gatgccaca acagagcaga acaattggcg agtatgcatt gggcatagga ggctgaattc 180
 agcaaccaca atagatcatt ttcccttgcc ttccatggat caaaggctng accgcttggc 240
 aggtcaatct cattactgct ttctcgatgg attttatggc tgttggcaaa ttcatattgc 300
 tcttgacgat ctnagaaaga ccacattcac ctgtccctta ggcactattg cctatatgag 360
 gatgccctac aacctatgca at 382

<210> 22440
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 22440

gacctataaa actcagctgg aattttttga aagaaacttt ttaaagcctt caaggcttat 60
 ataatacttg ggaggaagcc taaagaggcc ttaagaaaga atacttgaag ggaagcctgg 120
 agaggctttg tgaagaata cttggaggaa gcctagagag gctttagaaa agaatactct 180
 agtgaagcct aaaaaggctt tttgaaagta atcttctagt ggagcctata gaggcttaga 240
 gaatattggt tgtaggagct tgtgtagact ttaggaaaga aagaatacca caattgggtg 300
 cttggttttt gtggaaaaag cctataggtg taggaactag atgtagctca ggttgggggtg 360
 aaccatgtat aattccttgg tgtgattggt cccttcttta ttgcttcttg gttatattta 420
 tt 422

<210> 22441
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22441

agctttacat tatagcttgg nggataatgg atgctaatag gcctaatttt gatgtcaatt 60
 ttaacactat tttggatttc ttttcattat gtttcacctg tctactaact aaaatagcat 120
 accccaatca tacttttctt tgataccctt tgaaattacc aacttctaata tttatggttt 180
 gcagcatttg tagattgtaa aattgcaatg atttcctact tctaatttct gtcatgcccc 240
 tttggagata ctcaagcaaa aagtgatatt accttgtaaa actatacaag ttcataattt 300
 aatagcccta atacatttca ttctggactc ttaaattctca naacatagag attccctggt 360
 tctgtattaa gtccat 376

<210> 22442
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 22442

tataagaacg aaattgccta aatcatttcc aaatatgtat gtgaattatg aagtatcaac 60
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120
tgatgatgga tggcttgaat tctcaciaag gtaaacttat cactttcaaa ttgagctttc 180
gaaactatca tgacatgtaa aggaaaaaca aggatttcaa gtcacaaaat gtcaagagac 240
ttttattttc agaacaatta cccattactt gaacatatcc tataattcaa agacaaacat 300
gcaaatttaa cacaacaaaa ctaacaaaat taaactaaaa cccaacaaaa ctaacaaaat 360
taaactaatt taacacaact aacaaaatca aaaccaaaga acacactccc ccccat 416

<210> 22443

<211> 412

<212> DNA

<213> Glycine max

<400> 22443

tctcaaccgc cttgtctctg tgccttctc caccactccc aacccactc tagtccctcg 60
ccactccacc tctgttctg caciaatccg atatgcccc tcaccgtatg aggatcctgt 120
cgggtgccttg ttcaaactca ctcacacggg ttcagtgcta acatacctga aggagtgcga 180
agacttggct aatagaatta tcggcttgcc gaccccttc ctgttgctt gcttcatctc 240
gggtttgaca tcggagatgc gccgcacagt ccaggccac cagcctatga ctgtggacaa 300
ggccgccggc cttgcgaaga tctaggagca gaagctatcg aaccttcgtc tgcctccacc 360
gcggtgcga cccaccgtt ggtagctcca ccgccagccc ctttggttcc cc 412

<210> 22444

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22444

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ttgcttaaat ggaactcgac ttgcatgttg ctaagatggg attgcgga gcatgataga 120
aggacgaccg ttctagcatt gggtgcgcaa aatcggcgga gaatagtgat atttatttac 180
cgacatctca tcatagttct ttctaact attatttata aatcgactgg gaagcgacct 240

cgtaaataac actgatctag cagagagtaa agggaatagc tacacataac tctgaatcat 300
 agagtccctc ccatagctcg tatgaactag ttatatgacg ctaaagccgn gatggacctt 360
 actacagtat c 371

<210> 22445
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22445

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 ggcagtgata ttattgacca gccctccgaa accttctacc gagatatctt gggccacgtg 120
 ggcctcgttc aaaaccttca ctagcagagc ccgatgaggc tcggagctca tgagtaactc 180
 caacagcgag accctggccg gggttttggt gagctgttcg ataaccttga attcgctctg 240
 ctgaattata cggaggaact cgctggcttc ctctagtcat acctcctttn taccatcctt 300
 tttctccgga agaccttttg ccggaatata tttattcgaa gcatgggggtg cttegccatc 360
 ttgttctctc accactttcc cttttccctt gacgttcgcg gg 402

<210> 22446
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22446

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 cgcttaatgg aacaagactt tgctgttggt attgtcttaa taattactcc atgattggcg 120
 gccgattgct aatgctattg ttggttaaga tttgtggaag tggaggaatc tttagctcgt 180
 caactaccaa aggtaaataa caactttggt atataccagt cctctgggaa gtgaacttaa 240
 atctagcact gattcttctt atagttcatg atctatttac tttctcctct gatactttgc 300
 ttcactcttt tgtaacgttt gtttaattta tatgatgcta agtgcagttt gtgtgtaaca 360
 acactaacc 369

[illegible]

tgtacgcaca	tcgttcacgt	gtattatata	cactccttat	ggtttgaagt	agaggagagc	60
ttcaacccta	taatgcaacg	tggcggacaa	aagtgggcag	taaacttgaa	tggtcgtcat	120
tgtcaatgcg	gaaggtattc	tgcgcttcac	tatccatgtt	cacacattat	tgcagcttgt	180
ggttacgtga	gcatgaacta	ctaccaatat	atagatgttg	tttatacaaa	cgagcacatc	240
ttaaaagctt	actccgcaca	atgggtggcct	cttgggaatg	aagcggctat	tcctccttct	300
gatgacgcat	ggacacttat	ccttgaccca	actacaattc	gtgcgaaagg	tcgccccaaa	360
tcaacaagga	taagaaatga	gatggattgt	gtcgaaccat	ctg		403

<400> 22448

gagggacctt cacactgcct atactctgac gtacacggac ctactcctgc ctggacacag 60
gctgggttagc tgagggctta tggatctatt ttccatcata gcttggatgc tactgtgatg 120
tgatgcccg agtgagcact atctggacgg gtgtcttagc gatcacttcg atttgccttg 180
aatgcagagg accgttccac accactgtca gaaacattat tctgacatgc aaacataaga 240
caatgtgcac gtcagaaaca ctagacagta gacacagaac tggaccttta tta 293

<400> 22449

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ctgccctttt	ctgategttg	gaggatgcat	tgaagacaaa	tgtttcattt	tgtctttttgc	120
tacaggcgag	tgcaacacac	acgtattact	cttgcatatg	tgtcactcat	ggagtgggcg	180
tgtactgaag	attcaatacg	tgggtgagtg	gagttgcatc	atgggtttaaa	aaattaaggc	240

accattttcag cttatgcaag ttaccgaaaa gtcacgcctc tacttttaa at ggagtgaaag 300
 tttgattttt tategtcacc attttcgaat ttctgcttct tctggatata agtgtagcaa 360
 catttaaaat gtttgatcga tatgttcac c aacttctaaa tag 403

<210> 22450
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22450

agggtgatga tgatcntaga cgnccaccaca tataactaagc gccgtccgca gatccctcaa 60
 gtgagactag actcagcttt agtttctcac caacgcttag cctaataagag ggtaggcttc 120
 atccgcagat gcctcctgtc cgactaggcc tatactcaat agccctattg gaactacgat 180
 aagtctacca aaacttaacc cgcagattcc tcatgtaaga ttaagcttag atactggctc 240
 ggtcaagatc taaggctaca gtacatttcc caatgctaaa gtcacctaac tgtgcatata 300
 aatgagtgat cagacccaaa gcatactaac actaaacatt gaaggaagca ttgaacactc 360
 aacacacgat caattagata ttaagtattt acatcaactg ctcataagaa atacccaact 420
 aggggtggtta gctagggatt acaaagagac cctaaacaca tgagatttaa agcacgct 478

<210> 22451
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22451

gggcgcttga tagtcgttga cggcgcacaa ttacaaacn ccgcggggga tcgaaaaaca 60
 ggatgcccac ggcatttan gttgttggtt tatcaattgg acgccaggag ggggtatatg 120
 accatactc aactgcttca gtatggactc atccatattc tcacattaca atgcatggag 180
 gcgcccacat ggcataaata gaggaatac tntattagga gccaatattga tagaaaatat 240
 ttggcccttt cttttatgaa tgatattaca tttatcataa tcaaagatga ctatataatt 300
 tttatgaata agctgaccaa cacttaaaag attttgagta agacctgaca cataaaaaac 360
 atactggata tattgcttgc taccattttg agttataaca gcaatggtgc ctcttcttc 420

aactgtttga acatttgcac caccgagtgt aacttcgaat ttattgtcgc attcc 475

<210> 22452
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22452

agcttgtaga ttctaagcac cttgtgagca tgggaactta tacggcttga ctggctcaaa 60
gccaatgata atactaccaa cgacactatg gatacatcgc atcaaattggc ttcccatagg 120
tcttgacgtg gataatgaca ggggtttacaa gcataacctt tgctaatacct atagccttct 180
gcaatgcata atcacttggg gcaactgaata catgtttctat gtcagtgccca ataccaaggg 240
caggggtgggc accaactg gggactgcat ggctcaccat ggtcagcatt tctggagcgt 300
tttactgtat gcaagtgan c ttgcatgttc tctcatc 337

<210> 22453
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22453

aagagcgatg ttcattgattc actgtacanc nctnaatta gtaaacancc cgccgaanna 60
nggnacacac cttntgagac ttgttttttt attttcacac gcattttactg cacagtatgt 120
tggtatattt ctatttnggg aaaacaaaca cctanaatca tactaaacat gaaacaaact 180
tgtgcattct aatcctatgt tcttgtcatt tgagaagata ttattgatgt aaagaatgag 240
tgtgaaatcg ctgataagag aaggaattcc cttttttgtg taagaaacta tcattctttg 300
cttttaatca catttatagt taaggtttct tatgcatggc tgtctaaaca ccctagttgg 360
ggattttctaa tgaacaattg atgtaaattc atatattctat tgaatgtgtt tatgtgttca 420
agctgattca nagcttatgt tagttgcttt ggttgatag ccattggtgc acattagggg 480
g 481

<210> 22454
<211> 399

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22454

agcttttgaa atttatcttt atcactggta atcaattaca gganactggg aattgattac 60
cagagagtaa atactctggg aacttaaaaa attttgagat aactcttttg aaaaacaaaa 120
ctgtgctatg tttgggtttt gaaaaatcct tttcaatact taccttgtga agtcttcttg 180
atttcttctc ttgaatcttg aattcatctt ctcttgaatc ttgaaatcaa cttctcttga 240
attcttgaat cttcttgatn tcttctcatg aatcttgaaa ttaatcttga tcttcaactt 300
gttgactcaa tcttgaaatc attcttttgg gcttttttca tcatcaaaac tacttgattc 360
atacttgaat catcatcatg aaacttgctt ctacacgat 399

<210> 22455
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22455

aggggatgtc tagacatgac accattatta acacggcccc tgcactgtga actaataata 60
gttggtgatt ctgttggtgct caaagtctgt ggatgagagc aacaacttga agactttgga 120
gtaaaccttg atcacattcc tctaaaatgt gacaacacaa gtgcatcaa cctaaaaaaaa 180
aaccttgatc tgcattctag gactaaacac atagagataa ggcattattt tcttagaaat 240
catgtgttaa aaggtgattg ttgtattgag ttcattgata gtgagcatca actagcagat 300
attttcacta aacctcttgc tagagatagg ttctttttca ttagaaatga actacgcata 360
ttacatgcat ctagcataga atgatattct gtttgacag tgtgtgtgat tgacattgct 420
actcatataa tatctttttg tttagtctgt gtcacaagtt n 461

<210> 22456
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22456

cggcgcttta tgagtcgttg actccggacc tatgaaactc cgctgatgac cctggacggc 60
aatcaatggt attagtngt ggatatacaa tgctaacaag aagtaggatt taatagttaa 120
aggaaaatgg cacgaaatgt aatttcacca ttattcaatt tataattctg aaaggccaac 180
cattagttca ttacaaagta attacatggt tttccgtaac aagaaagttg cttggctcca 240
acagattttg tggtagagtc attocatcat acagcttgcg ggctacaaaa ataaaacaaa 300
agctttcaac ccacaaacat catcaatcac aacaatctaa caatttagtg tcattcattg 360
aacatcaaac gaatacatte ctacagaccaa caccaactat gccaaccgta aacgcaaagg 420
tcaaaaaggg aggcaaatgg tactataaac acatatctca ttgaggagag tg 472

<210> 22457
<211> 385
<212> DNA
<213> Glycine max

<400> 22457

agcttcttat aagctgttcc attttatcaa tagacacatg ttgagtttta ttcagaaaat 60
tagagtttat ctcttttate ttagtgagag tgattctcct aaattcttga gtgattcaag 120
aacaccttgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180
gtgattcttt ccttcctttc atcatcacc ttgttctttc aaaccacaat tccagataat 240
ccacctctgc ccagaattat ctctgggcca taacttccat tttacgcact ctaattaagt 300
gattcttgag cctaaattga acttcaaacg agacctttca cctcgttctg gaatcacctc 360
atttgagacc ctgtagcttc agtta 385

<210> 22458
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22458

acacatagaa tactaagctt ctattaagct gaaccattga tcaataattt caagttgagt 60
tttattcaaa gagtagagaa tatctctttt gtcttagaga cagtgatact actaaattct 120
ggagcgattc aaaaacaccc tggctgataa gaagacttac caatctttgt gtgtagccct 180
cgctggaaag agtgattcat tacttccttt catctatacc ctgggtcttt ctaaccacaa 240

ttccagagaa tccacctctg cccagaatta tctcgtggcc ataactcccg ttttacgcac 300
tcaaattaag tgattcttga gccttaattg aatttcanaa cgaaacactt cacctcgttt 360
aggaatcacc tcatttggag ccctggagct caagtattgc catctctata 410

<210> 22459
<211> 538
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 22459

aaaggggccg acaagcacgg aacgagaaac aacaggaggg agaaaaacac caaaaaaaaaa 60
aaggagaatt gagcgctgag ccctgacacc naggcgaanc nnacgcgcac ccgggaacca 120
cagagccgcc ggcaggcttg caagcttgct aggggcagag agaagggaca ccgggacaca 180
acagaacaca caccggaac aaggccacgc caaagaaaaa cacaggagcc aaaaggccca 240
gcacgggaaa aaaggccgag aagcaccgaa gaggagcaac cngnagcaga gacaccaacc 300
gcgacggaag ccaaggaccg cgagcgcccc caccaaaaag gcaggcngaa caccgagng 360
ggggagcccc aaagaacaac cgacggaaac acaaaacaac caagagaaag cgaggacgc 420
aancaaagcc gcaaacaaag cgcgaaagagc gacagcccag ggccgaacac ccagacggg 480
ggcacacgag gcgacgaagc anggagaaag gaacggaagc caagacaacg aacaaacc 538

<210> 22460
<211> 330
<212> DNA
<213> Glycine max
<400> 22460

gctcaagatc acaatattca aaatcacct caacagaatg ctcaaatgc acagaatgac 60
caggatgcac actacgccta actaatctat gaaaggttct atctatttca ggatcaaagg 120
gttcgaaatc acctggattg cccctagtca tgcactatac gcagcaaaaa atgtgtgtct 180
cagcaaacac ctaacagggg gtaaaactac agctatactc aaacgatatc aaaatgagct 240
gatatattgt gaggaacacc ctaaaatcat gacaagatag ccataaatt ttcatacaaa 300
aattcaaat ctaactatga gaactaccta 330

<210> 22461
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 22461

tttgcaagct tctttcgaat ttcattagtg actgattgct acatcgttct tcattcatcg 60
 accaattagtg ttttatttta aagttttgaa tttgctctat gcaccttttag gggtcctttt 120
 tgttgatttg tacatcatca tctatattct tctaccatta gtggtctcat ttctttgtgt 180
 aaagcgagtt ttgaccgatc gtttgtgcc taatctcact ttatcattgt aaaataaaaa 240
 ttcgaccgat cgtttgtgcc gtaatctcgg tatgtcaatg taaaataaaa tttaaccggt 300
 catttacttt gcagttgtct tttgtgagat tgaagtatat aagtgaacc 350

<210> 22462
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22462

taaagtatgc ctgagtaatt catccctatg atatgctttc tatgtattgg cgancanaat 60
 cgccatgcct tggattatag ggatgaacca agctcacgct tttaaaaaa ggttcatcaa 120
 gtcaagttga aatatgcgta gtaaccgtct tgcaaaattg cggcaaaaga tgaatcgagt 180
 cacatcactg cttcgtctac tggccaacat atttacgatt actgatgtgc ttgttactta 240
 cagcttcacc ttgacaaaga tgtgatggac cactgggaaa aactatatag attcaacccc 300
 atatcttgcg gacagatgcc cagtactata actgcacatc attcgcatgc gttcatgctc 360
 ttcattgggt gcaatgctcg tgcattcttc cttgaaaaaa gataaatgac 410

<210> 22463
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 22463

agcttttatac acacaaaata ggagaaagct ttatacggaa aaaaaagaag cttaaatggt 60
 aattagagtt caactcttaa aataagataa cgcacctaaa ttttatectt tctaaacagt 120

tgcaggctcgg agtagataaa ttggacaaaa atttagacat tggctcaatg gctccattta 180
cccattaatg atgctaataa tacaagttgc ttcttgaagc cttgttttct atgaattcgt 240
gggcatatct ataatctata tgcacattaa tcgaagcata tacaagaatt ctaaatagag 300
taaactacta ttccctgaat gtagcaagtg gaactggtag ctcttgaatg tactaaagaa 360
agtacg 366

<210> 22464
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22464

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aagaagagat tgcatagaaga gagggtcacg cataaagaag ccattaaact tggttcgtgat 120
gcagctaata atagtttaca agctgggttta attcctatct ttaagacatt ggagagtttc 180
acttcagagg tgggtgaaagc tcatgaacaa gtcaggcttc aaagtgctgg ggactcgtag 240
agattccagc tatttggttt cttttgaggt catagtgatt gcatttacta gtgtggattg 300
attgggggag tttagagagt acatggaaga tttagaacta acccaccagt tttgcagcta 360
gagttagtct tattatgtag gaaaggacct cttgaattac cctaaagagg ttttcttggg 420
acatgt 426

<210> 22465
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22465

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tcatgcacaa gtttatgaga cagcgatgca aaacaagaca tagactggct ggtttcaaga 120
tagtagaggc ctctagattc atgtcctatg ccaatcaact gaccacgttc ttgtacaaca 180
aaggaatcaa catcaaagt tatagaacaa tttaatgatt ttgttagttg actaagagaa 240
actaagttga aaggacaatt angaacaaaa agaactggat ccaagtttaa agaagaagaa 300

tgaagacttt gccgactcct ttagaggtga ctttggtgcc atttgctang gtgatcagat 360
gaaagaaatt tggaggagac agaggtgagt acag 394

<210> 22466
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22466

tcatgatgaa tcaagattga ttcataataag ttttgatggt taaaaaggtg atgaanaaaa 60
gctcagaggt caagaacact tcatgataac aaagatgatg atctcaagaa tcaaagatga 120
gttcaagatt gaatcaagaa cacttcaaag ttcaaagagg aagtttgatt tcaagaatca 180
agaatcaagt ttcaagattc aagttccaag aatcaagatc aagattcaag actcaagaat 240
caagaaaaga cttaatcaag ataagtatta aaaagggttt tcaaaaactg agtagcacat 300
gaatntttct canaaccttt taccaaagag tntttactct ntggtaatcg attaccagta 360
gcaaatggt tttcaaagc tttcactgaa ttacaacgt 399

<210> 22467
<211> 389
<212> DNA
<213> Glycine max

<400> 22467

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atatatacaa gaggcagca ttctgtagct tttctgtata atggtttgct ctctatctcg 120
gcatgttgtc tgcattattc tcaattgatt atatttcaat tagcactaaa atcttctatt 180
atcttattta gaggatattg catttcataa atctctcctg caggtcaggt ggtcttagat 240
gcaccattgc gctcagaag tccgcaaagt tgtcaaattt tatgcgttaa accacttgct 300
gtttctgcta gatcttgctc tcaatttggt atgaaaggat tcaatttttt gctgtctaac 360
tcgacgtaaa tctctatacg cttgatgat 389

<210> 22468
<211> 429
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22468

tggetctgcc ttatgcttct gctctcattc tctattctat tctgaaatcc tccaatgtac 60
aaggattggg ggacatatac acccaatgct tgatgcaaga tctttatcat ggttgggcca 120
aaatcccaca tcttagctct ccatectaaa gatttcatat gactgaccaa aactaatctg 180
gctagtgggt ggaaattact tttttcactg ctctgattt tctttatttc atgcattaat 240
gtttgtcatc ttcaactttg gcatgtgatg ccaaattgga ctggatccac aagattatcc 300
tgngtttaat tgtgcaaaat tatecttaga tttttttata gacatctgga agcaatttat 360
atattttaga atgatgggtg tcttactgag gaagacaatg aaaattccag tcttccatta 420
atgggtttac 429

<210> 22469

<211> 407

<212> DNA

<213> Glycine max

<400> 22469

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tagattaact taacctaagc ttcacccca gatgcctctt attggactag acttagctta 120
aatagcttac gaaagttttg cctaatttag cctaagcttt gtcctcagaa cctcttgtt 180
ggactagact tagaccaaac aacattattg taatagcata cttaaaacca aaacttaatc 240
cgcagattcc tcttataaga ctaagttcta attctgcttc attcaagttc taaggcaaca 300
atacattttc caatgttaaa atcacctatc taggcacaca aatggttgat cagaccaaga 360
gcatacaata ttttaagcatt gtaagaagca ttgaacacaa gatacac 407

<210> 22470

<211> 432

<212> DNA

<213> Glycine max

<400> 22470

tgtcaatgtt tgaaatttct tctttggtgt tgaagaatta attattatgg gtttagtgaa 60
gttggaaatgt tctaactagc ttgttgtgca attgtttcct tgccttaaca aagtaatgtt 120

tgaatgtatg cgtttaggaa cccattaaga taatgttttc ttgtttatgc tccctagtgt 180
tctctgtctt ttcttctttg gtgttgaaga agttagtatt aagggttttag tgaagttgga 240
atgttctaac ttgttgtgga attgttgact tgccctaaga atcaatttga cttgcgctta 300
gcttgttgga aacttcaatc agtagataga ttcaaacttc ttgtttgaag tatttcttca 360
gcctgttgca tgtgttactt ggagtacaaa aagtacaact attgacatga actttgaata 420
agagttagct tc 432

<210> 22471
<211> 409
<212> DNA
<213> Glycine max

<400> 22471

agcttatgct gcttatattt acaatagacc tcctcaaact cagcagcaaa atcaaccaca 60
acagagcaat tatgtcctct ccagcaacag atacaaccct ggatggagga atcacccata 120
cctcagatgg tccagcccta agcaacaaca acagcagcct gctccttctt tccaaaatgc 180
tggttgccca agcagacat acattcctcc accaatccaa caacagcaac aacccagaa 240
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaagac 300
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttggctaccc aattgaatca acaacagtcc cagaattct 409

<210> 22472
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22472

tcaagaaaag gccaaactcc cctcagaaat ctgatnttat gcttttatag gtggctatgt 60
ncatgctcat gctcttagca taattctgaa ccgcttagcg cgcattagtg aattttggct 120
tagcgcggtt tttctcgctc agcggatgga ctgaagcggg gcgcttagcg ggatgacat 180
tcgctcagtg aatatgcata gctcatcctc cttccagatt cttcctcatg ctacgccgag 240
aagtgttgcg cttagcggat gtctccctaa gccagaagat tggcttagcg agaggggtgaa 300

aatcaacact tcaaaacttg cctaattaac ctgaaattga gagaaaaatt attattaaac 360
 acacaaaaat ggaagtacta agtatttatt acctaccttt aacanaaagt aattacaaca 420
 ctacaaaata cc 432

<210> 22473
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22473

agctttatga tgtatcaaga ttgattcaaa gagttntgat gataacaaag atgatgacaa 60
 aaaactcaaa agtcaagaac acttcatgat aacaaagatg atgatctcaa gaatcaaaga 120
 atgagttcaa gattgaatca agaacacttc aagggttcaaa aggaaatttg atttcaagaa 180
 tcaagaatca agtttcaaga ttcaagacta aagattcaag aatcaagaga agactcaatc 240
 aagataagta ttaaaaagtt ttttcagaaa ctgagtagca catgaatttt tctcaaaaac 300
 cttttaccga agagttttta ctctctggta atcgattacc agatgggttat aatcgattac 360
 tagtagcaga atgggttttca aaagtcttc 389

<210> 22474
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 22474

atctocagca tagtcaacat cacagtagct tgtgagtcca aaatctttcc ttctttttaa 60
 gcatagacca aggttataag ttccaataag atatctaaaa atgcatttaa taacagataa 120
 aaggactttc cttgggttctt tttgaaacct tgcacataag taaacactaa acattatatt 180
 aggccataac gctataaggt ataacaatga tccaatcatt gctatttatt gggttttgtc 240
 caactttttt agattcttcg tccaacccta agtatctagt tggatgtata ggtgtctcca 300
 tttcttttgc attgtccacg ttgaacatat ttagaagttc tttcatatac ttgggtgatgc 360
 aatcctaccc cgcaaggcca ttgggtagaa gacttccagt aaattggcta gagatccaat 420
 ggaacgccct atgggtt 437

<210> 22475
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 22475

agcttttatgc atcattcgga gaggctaacg agacaacgag atgatgctgct ccatgagatg 60
 ttgcatcaaa tggagaatag agatcataat gaacaggaaa ggaagagaaa agggaatgat 120
 ggtgttccta gacaaaaccg aattgatggg attaaactca acattcctcc atttaaagga 180
 aagaatgatc cggaggccta cttggagtgg gagatgaaaa tagagcatgt tctctcatgc 240
 aacaactatg aggaggacca aaagggtgaag cttgccgcca cggaagtttc cgactatgct 300
 cttgtgtggt ggaacaagct acaaaaggag agagcaagaa acgaagagcc atgggttg 357

<210> 22476
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22476

gggctgtgct ctgcgcctc caaactaagc tgcttgaaaa ttttatttta gatatgaaac 60
 ttcattattct atcatataag aattgccagg gaagtggatc ttttatacca ttgtattggc 120
 taatacattt gcattttgag tatgttattg acatccgtgc ttacatatta tgacttaata 180
 tttttgtgct atttgcatt tgacatgcta aagggttatat cagcaacagt agcaagtgat 240
 ccacagaaat attgtgaagc atttcttggg aaaccaaacg ctgagtattg taactggatt 300
 cttgactcgg agaagtgggg aggttagttg gcctatgncc ttctaatca aggctatattt 360
 aaataaaatt tttaatggaa ataaatacca ttttctctgc tgcaattgga aactactttt 420
 ggtgttactg ggtgaatgta tgaatgtcaa tcttt 455

<210> 22477
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22477

agcttttatga tgatgaatca agttttgatg atgacaaaga tgatgacaaa aagcccaaac 60

aatgatttca agattgagta agaattgattt caagattgag tcaacaagtt caagatcaaa 120
 ttttaatttca agtttcatga gaagaaatca agaagattca agaattcaaga gaagtttgat 180
 ttcaagattc aagagaagat gaattcaaga ttcaagagaa gaaatcaaga agacttcaca 240
 aggggaagtat tgaaaagatt tttcaaaaaa ccaacatagc acagttttgt tttccaaaag 300
 agtttttttc anaatcttct aagttaccag agtttttact ctctggtaat cgattaccag 360
 tttcctgtaa tcgatta 377

<210> 22478
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22478

tcaagaatca agatcaagat tcaagactca agattcattt atttttatat tatttaatca 60
 agataagtat gaaaaagttt tttcaaaaac tgagtagcac atggattttt ctcaaaacct 120
 ttttaccaaa gagtttttac tctctggtaa tcgattacca gactattgta atcgataacc 180
 agtagcaaaa tggatttgaa aaagtttttc aactaaattt acaacgttcc aattgatttc 240
 aaaaagctgt aatcgattac aatgttttgg taatcgatta ccagtgcctt tgaaagttga 300
 aattcaaatt caaatgtgaa gagtcacatc ctttcacata aaatntttgt gtaatcgatt 360
 aactgattt ggtaatcgat tacttgtgat tgtttatgat taaatcaaaa gatgtaactc 420
 ttc 423

<210> 22479
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22479

agtttgcaag cttgctccag aacacaaatga ntgcttacag gtaatggaag gaggccaaga 60
 tgttctgaaa gtacgaacca aaacataaga tcacccagtg aggtaaaagc gtcaagctaa 120
 tgacgctaaa gaagcgtttc ctgagaggca acccagtctt aaattctgtt atctttgttg 180
 tctttcatgc aattaaatca tctaaaacat gctatatagt ctgtacatag tagtatatct 240

gccaatcttt ggatgtttta cataaggggt tcaatttctt ggaaaaagga gtgaaaataa 300
 cttataaaaa tattttctga aaaacagtcc ttctgctaag cgcattgcctc gcactaaaag 360
 catctc 366

<210> 22480
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22480

caagaaaggt ttagtcattg tttaaaaacg acttaaaaaa aaaagtttaa aagttgtata 60
 agctctgttt gtactcggag aacagttatc ctcacaatat ggcaatatca ctcccccaa 120
 acatatcatc cacaattgta atattgnaca acttcaacat gatcttctgc tccacctaga 180
 tateccacca acttattgat gcgtgtacat aattccctta taacctcact atcaaattgc 240
 atctgaggat tgtcattgaa cttaacattc taaaattgga caaccacatg taatacgtga 300
 tgaagttgga tattccatct tcgttcaatg attcgaacac ac 342

<210> 22481
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22481

agctttaaca tggtttatta aatgttaaat cggatatatt atcagaaata acttccaaaa 60
 tcctaagaat ttaaattaat ttattaaaaa atttcaaaat aaaagcttat tgaaataatg 120
 caatgaaaat gttattttgt ttgataatgt ataatgaaat catattccat tgtttattat 180
 acaacaaaat tgtatgtctt tcttatatta ttcaatgaaa atttgatttc attgtacaat 240
 attaaaataa gttgggtggt tgaaaaaaaa gaagacaaaa gtaggttcca ttgcatacct 300
 gtgcaacgat atcataagtt tgttggtggt aagttggagt gtgnaaaaat aattcaacgg 360
 aacaagattg attacatatc tatctatgta tgaa 394

<210> 22482
 <211> 342

<212> DNA
<213> Glycine max

<400> 22482

ctttccaatg tgtggctgaa ttgatcttaa tattacgatg agaagttaat tattgaatga 60
atattgggcg gagaaattaa atatggagaa tcaagttggt ctagtattaa agaaaggaat 120
gttacgtaag aatgaagcat atgggacaaa atgaaatata tcataattgt cgttttggtc 180
aactcaagtt gatgaactga gacaaatagc acgcacaaat gggacaagct taatttcaaa 240
cctcagtga tacagtattg gctgtggaaa tgaaatgagg gaagtcaggt tggtttggtc 300
tctcaaattg taaaacaaat tctacggaat aactgggtg gg 342

<210> 22483
<211> 367
<212> DNA
<213> Glycine max

<400> 22483

tttgcaagct tgtccaaaaa tgcacgaggc aatatttgta taaagaccca aaaaatttgc 60
acttaagtga gtgtttgctc aagccaaaaa cttcatgttt aaacagatac tacaaactct 120
gcagttttgt aactctgacc aaaatcagtt taagccaaag ttgttttgct taagctaatt 180
ttcctctgca actttctttt tcattctctc caaaaaagaa cttcaatctg ggacctctaa 240
tcccaactta agcacatttg agttgaaatt gtcacttcaa gctttcattg aaccttggtc 300
caaaaaattg ctattcaatc caattcaaaa atcctacata aaggtccatc aataagcatg 360
tgaacta 367

<210> 22484
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22484

tgagtcgctt ataattgagt tggcatctta ctatgtgtct ctgtcaatga ctcaagctgc 60
ttagctagca gtttgttctg tgccaacagt gcattctgtg aagaaagctc taacaggctt 120
ctttttgtag gtatatgagt ccgatcacgc aagatagcat gatcagtagc agccatattt 180

tcaataagct ccatagcttc ttcaggagtc ttcaatttaa tctttcctcc agcagaagca 240
tctaataact gcttggacta tgggtctcaa ccatctataa aaatgttcaa ttgaatcggc 300
tcaaagaatc catgagttgg tgtctttcgc agcaagctac agaatctctc aagtgttca 360
ctcanggatt catctgggaa ttgatggaat gaagagatag ctgccttgcc ttcagctgtc 420

<210> 22485
<211> 391
<212> DNA
<213> Glycine max

<400> 22485

agcttataaa cctttttatg tgaagatttg aagatcttaa tgtatactac ataaaagaaa 60
atgctaagca tagcttctgc tttttcctct ttctttttaa cttgggttga ctccataaat 120
tttgttgatt aagatgttga ttatttgaag atatatttat agcagtttgt taaatgagaa 180
aaatcctacc ttgcacatta gttgatttgg atagtattac ggatgtttct cttaggggaa 240
tcaaattcag acaagaagtt atatataaac ttgacttata gaaaccaaac tgtgcagggg 300
agatgatgca cgaaggatcg gttgagttgg agaccgtgct ttctttaaga tctcctacag 360
cagatatgga aaatgatgac ttgtttggta a 391

<210> 22486
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22486

ntctgaataa ccaagatgaa agtagaaggc tgaggagtgt gatgtatcaa tacaatggag 60
gagaactgca tataaaggca atttttttta aagcaactcg tagctcgtga tggcgctcc 120
cccttgcaac gcgcaacctc caatggcgcg tccttgetac actgctacag cctgcactac 180
actcagagct acgctgctgc accctagggc cttcaacgcg ccagtttgac tggcgccatg 240
cccaagtcgc catttgctgc ttgcgactcc aatgccacgt angcacaaag gcaaggcgct 300
gggtgggaatg gcgacaccag cgccacgtgt cacctcctcg ccgaaagcgc caatggtggt 360
ggcgccatgc atggtgttta cgtgaaaaaa caacacccct ctgtatatgt ttagaaacaa 420
ccc 423

<210> 22487
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 22487

tttgcaagct tcaacgggat cgacagaccc ttggcatcac tctacgatct taaatcgga 60
 aagtttctact tggttacata ccaaagtgtg acaatccatt gccatccttc aatggggcac 120
 acgactgatc cgaaagcctt atgttttctt actatgtaga ataatcgaat tttttttaa 180
 aaaaggggaa aaccctagga tcaatatttc gggtgattga ttaaagtca aatggctcca 240
 ttgtcgtcat ccaaaattgt caagtgatta aacaaaacat actctttgaa ggagtccccg 300
 aagagatttg caaaaaaaaa aaaatagaat aagggtgcat gaattatcac atcttctaca 360
 aagaggcaat caatttgtgt tttcataata aaaa 394

<210> 22488
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22488

ntaacctcat cgtccctcac agtctttaga tttgggttct caatccaatc cttgggttcg 60
 gactctcagc cacttatgat agtcgccgat gatccatta ctgcttcccc taagctctct 120
 gtcctttctt cacgccgcat cccatgcctt gogaactcct tggagtaccc tcgcgttgtg 180
 gtcactaaaa ccccgtagca tgaaaggcgt gatgctttcg tctaattggcg cttctctcat 240
 ggggtagcca agctgtctta tggcgaggac gggattataa ttaatacaac cccttggttc 300
 catcaagaga acatttggac atccttcgca tgaagataga atcctgattc ttccttcctt 360
 ctagcgagga aaccaattaa cagacgcccc tccatgctag ccaagagttg gtcccaattc 420

<210> 22489
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 22489

agctttgact cggatatccg attgaggccc agtatatatc atcgccctcg aatatagaaa 60
 tggactgacc acgcaaattc ggacagccat aacgtttgac tcggattccc gattgaagct 120
 cataatatat ggagatggtc ttaggaaaaa aatgaagccc atcgcaaata caaacgacca 180
 taacttttcc accggatctc cgaataagcc aagtaacctc tcgcatgct caaaatttat 240
 catggaagac tcgggtgaat tccgacgggc aataactttt actcggatgt ccaattgagg 300
 ccataatat atcatcgccc tcgaatatag aatggactg accacgcaa ttctgacagc 360
 cataacgttt gactcggatt cctgattg 388

<210> 22490
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22490

actaagcttt cattcttcat gcaccgcttg gggttttattt gtttcggcat tggattctca 60
 tttgttactt ttataccccc tgtgacgtgc ttaagccatt ttacttaagt catttctcgc 120
 ttaacttata aataaaataa attcccaccg aacgtttgaa ttgtattatc cattaacttc 180
 ggtaaaaata aattccgacc gttcggtcgt gccgtaacca cgttggaat caaaaaaaga 240
 ggtaaaaata atataataat caaaaacatc ttttagtaaa ataaagcgga aaatcaatcg 300
 gacgttntct cnttgggatt tctcattctt aatcgaattg attaataact aaagtgaac 360
 taaggctaan aatcaactcg cctagtcaaa ctcgccaca aaaataggct ttg 414

<210> 22491
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22491

agcttcgtgg caagccagtg gttggaggac aaggctggat ggtgaagttg atgtgagga 60
 ttcataatca tgaattggcc aagtcattag ttggacattc atatgttagg cgattgacta 120
 aagctgaaaa gacacttatt gctgatatga ccaagtcaat ggtgaaacca agaaacattc 180
 tgctaactct gaaggagcac aatgccaata gttgtatgac catctaaca atatataatg 240

caagaagtgc atategttct tccataagag gaagtgatac tgaaatgcaa catctaataga 300
agctttcttga acgtgatcag tatattcatt ggcacagatt acangatgaa gacgtagttc 360
gtgatatctt ttggtgtcat cctg 384

<210> 22492
<211> 408
<212> DNA
<213> Glycine max

<400> 22492

ctaagcttgc atattaaaac cttaatactt gtgtttttaga tcttacacat gataggtttg 60
ccaagagcat gagctcatat aatgacattg atatgaagat tttttgtgcc aaatacatca 120
agctcaagag ttaatttgat gtatctatta ctattgcatg atttaacaac tataagaaac 180
tatagttagg gtttagctat attgacttgt ctttcttgag ctttagataa taggggttgac 240
tttaagcaag aaaatattgg aggatgcacg ttgcttctcc aatcatgggt gtaggactgg 300
attacatgca tttctccata tgtgtaggta tgcaaaattg tattttttgtg gttgatttgt 360
ttcttttata tagaaactaa aattgtgtca ttattagtgt tacaaatg 408

<210> 22493
<211> 407
<212> DNA
<213> Glycine max

<400> 22493

agcttttact atttatttaa agtctctaaa atggacctat attagactat tgagtaaaat 60
ggccctatat tggaattaat agaccttatt agaactaaaa tggctctata ttgaaagaaa 120
tttctaacta tggatcaaaa gactctgac acatcataaa taaaccatat gtttacggac 180
tgggcttatg ctcaatccat atctcatctc tactatgctc aaatgttcca aacattcatc 240
tcagacagaa tatatatgat atactacatc tattaagaca catgaatctt tttatgtttc 300
attaaatatc taactggtac tatacctaaa aaaactattc ggaatctgac ataattttac 360
caagttaaag tgtgattgtg ggataagata actgatcata agctaca 407

<210> 22494
<211> 430
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22494

agcctttcag gagtgaatat caccagacca aataaaangn ctttgaatct tctttttcct 60
ngagaagggc ccttggccat gagtacatgt ggaaggagta aagcaacgtg ccatttatga 120
ctgacttgat cagttgaacc cgaccataa tggataagag agcgcccttc tgagtaacca 180
acttagattt tatacgatca gcaataggcc ttatatgaat accgcggggc tggcttagaa 240
aaaaggggac aacaatgtag ttaaacgaca gactggccac agcaaaacct agaagaagtt 300
ttatctactc tcaggggtga cccaagggat tggtttgggt tagatttcca agaacaaaaa 360
ataatcatct aatctagatt aacttcatca ttgtacacag tatggatcga ataatcattc 420
aaaatattta 430

<210> 22495

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22495

agcttgcttg tgtagcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60
ggtgattttc caccatggag atgcagcgga agacaaagga gaagaggtaa gaggcggcgc 120
catccactag ggaataagcc ttggaagaat gagcttcacc acccagatga gtctgggata 180
agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
ggagcacgaa atttaaggaa gataaagaga gagaagttga actttgagtt atgtctcaca 300
agactctcat tcatcatagt tacaacaagt gttacacatt cttgtatcta tagactacgt 360
agcttccttg agaagctntc ttgagaagac ttccttgaga agcttc 406

<210> 22496

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22496

taagcttcac atggagctac atcacagcag ctgctactgg gctctcaact ttgtcgcttc 60

ttctctnccg gcctcttgtc ctcatctgtg ctctcttcac gagtctcttc tccacctcta 120
 caagtctcat ctctcttgtc atcatgagta gtgttggtgc gccgataatg agtttttatt 180
 ttttggactc tgtttactcc attcagattt gcaatccata tgggacatgc gaaatacgaa 240
 atacaaaata caaaatcata acttatatgg attgacaatt cgtatgtttc atacagatta 300
 gcatagattg aagttacaaa caaaataact aacctcctcc gctgttgcat tgtaacaccc 360
 accatgatga caatcacaaa ccgcatatga accaccacga acaatgcacc tcg 413

<210> 22497
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22497

agctttataa ttattaaaat cgattattnn cgntatctat aaaacaattt gatttcacgt 60
 gcatcaaaac tttgttttgt tttaaaaaat tatccattag gaaacaattg tgtgtaatat 120
 cgcattatct ctacaatatg tcgtttcaaa tgatttcttt ataattataa agctgaagtt 180
 ttccgaccca agaattaaag gtctccctag tgaaatatca ttctaactta cgaaataatt 240
 tgggtcagtt tatttggtta aaagtagaga ccattgttat ctataaaaga tgaattgatg 300
 taaataaaaa gactaaattg atcgattttt ttattgggta acaacaaaac tggttaatttt 360
 catttttcca cggaatatca atcttaaatc ttg 393

<210> 22498
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 22498

taaaggagaa agaagataga ggaaactaaa attagtagtg attgttaatt atcttacaag 60
 agagttgggtt attatagttt tatataattg gttgcaagaa taactaactt gtaactaact 120
 aaactatctc ttgtaacaaa gtgatcaatc tgaattaacc atgatcaaac tataatctatg 180
 ttaagatccc ccttcaagct aggaatggat attggatatt cctaacttgg aatacaaaaa 240
 ttgaaaagaa tcaggcagca tggccttagt gtatatgtct gcaagctcat tagcaaaggt 300

gataggaagt aatttcacaa ttcttttatg catcttctcc cgaactagat gacaatcaat 360
 cttaatatgt tgtgttctct catgaaaaac atgatatggt gctatatgaa gggcagatcg 420
 attatcacaa t 431

<210> 22499
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22499

agcttgtctt tgttttanac attattgata catgatttgg gacttgtagg atttgatttg 60
 ggcaagattg gatgaaagga aggggtgattt tcgaaatctg cacttatgca gaattttgct 120
 gtcaaaatag gtgcagcaga attttggctt tgtgcagaaa aatgcttgtg tgtgggtgggc 180
 tgtggaaaga gtagtacaga atgagttctg gacgtttaca agtagatccc aacggtcaca 240
 atgtatgctt atgtactaga gacttccagt aaaattttcg agtcgatcca acggttaatg 300
 aaccggaacg aaggaattgt tactggngtc tntaagtgag aaaagctgtg anttggttgg 360
 tgttttgggc agagttttct gccttt 386

<210> 22500
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22500

ctcagcttac aagcagcttc atcagtgggt cagagccatt atcttttttt ggtgctcctt 60
 aaacctccat taattntcag ctctaccttc tctccattg ttgtttcttc atttttgtcc 120
 atgtatctcc tcacatgtct tgtgataaat gttgttaaca tgattcttta gaatttccac 180
 cgattaaact tgctatagaa gctagatttg attctctatg gttcaaattt cttgttcttg 240
 ttcttgaacc atgaattgtg ttgagtttag attcctttga gttttgtctt gcaatttttt 300
 tgtggctgaa acctaaacca taaaattctt acaaaaacat taaagtagaa gaaaacctaa 360
 caaatataga gtgacttggt cacctattgt agtntgtca tagaagtcac gtctaatacat 420
 gaaacttgt 429

<210> 22501
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 22501

agctttgagc cataatccta acttaccata aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcaaaaaa gaagagaagg aaaatttccg atcaaagaaa aaaaagagaa 120
 ggaaaatttc caatcaaaga gaaagcaaaa aaaaaaagag aaggaaaatt tccaatcaaa 180
 ggataaaata gaggaagga aattcccaat caaagagtgg gagaaagcga aaagaaaaga 240
 aagaaaattc ccaaccaag agtgggagaa agtaaaagga aggaaagaaa gtcctgatc 300
 aaggatcgaa agatatcaga agaaatgtgc agaaaggtct gtggaccgga caatatatgt 360
 acaatacaga attgttcacc aatgaacata aaaaa 395

<210> 22502
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22502

taagcttaca acagattnta gtaatgaccc actaacctag aatataaatt actgattgcc 60
 attaaccttg ggaattaaga aaaaacttaa tggctgagtg taactgagat cgtggcaacc 120
 aaaagtcacc ctcatcagcc aacaagtcag ccaccatttg gtctcccaaa aggctgatgc 180
 ctaggttgcc aattgggccc ttattacaac ttgaactaaa cctactaatg cccctttatt 240
 tgattaaccc aaaacatatt tttggtcagc caactttaca aggattgggc cagtatttag 300
 acaaaactaaa cactctaaga ttgagacata gtggtgtcat tcacacctgc tacattcggg 360
 ccatgatata actcacatcc taggac 386

<210> 22503
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22503

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 ttaatTTTT gctttacett ctctccatt gttgtttctt catttttctc catgtatctc 120
 ctcacatgtc ttgtgataaa tgttgtaac atgattcttt agagtttcca ccaattaaac 180
 ttgctataga agctagattt tattttctat ggttcaaatt tcttggtctt gaaccatgaa 240
 ttgtgttgag tttaggttcc tttgagtttt gtcttggtat tttttgtggc tgaaacctaa 300
 accataaaat tattagaaaa atattaaagt agaagaaaac ctcaaaaatc tagagtgact 360
 tggtcaccta ttgtagttnt gtcatagaag tcatgtctag 400

<210> 22504
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22504

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 gcaagacctt gatttgcatt tcaacaacac ttacaacctt tacaacaac tttccacat 120
 attctttttc aacctttaaa tctctttgaa catcttcttc ttcttcttct tcctttgcaa 180
 aagctttctt aagttttttg gttttccaaa ccttgaaaac aaaaattgtg ctattcatct 240
 ttttcattcc ctctccctt tgccaaaaag aattcgccaa gggctaaccg cctaaattct 300
 ttttgtgtct ctcttatccc ttttccaaaa gaacgaagga ctaaccgcct gagttctttt 360
 gtgtctccct tctcccttgt caaagaattc aaaacaacac agtctgagaa ttcttttgat 420
 tcttccctt 429

<210> 22505
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22505

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 gctttaagag taatgtccca ctaaaactaa ctttccaaat gtttgcttc gcaggaatgg 120
 ccccgaggaa gcttgctca aagaggtcca ggaaggacaa ggcggccgaa ggaactagtt 180

ccgccccgga gtacgacagt caccgcttta ggagcgttgt acaccagcag cgcttcgaag 240
ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca gctcanggac gacgagtata 300
ctgatttcca ggaggaaata gggcgccggc ggtgggcacc actggttact cccatggcca 360
agtttgatcc agaaatagtc cttgagtttt ac 392

<210> 22506
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22506

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cccaatatta tgaccagttg ttgaggtgct tcacctctgg ggacttccag ttatcaccca 120
tggtggaaga gtttgaagag atcctgggat gccctctatg aggaaggaaa ccatacatct 180
tctcaggatt ttatccctct ttagctacaa tttctaagat agtccgaatc tcgacgcggg 240
aattagacca cagaaagcaa gtcgaaaatg ggggtggttg agtaccgacg aaatgtttgg 300
aaacaaaagc aagaatcttg gcaggtaaac gcgaatgggc cccattctaa acatcctcgg 360
gcttttgatc ttatgagggg tcctctttcc aatgtggatg ggttggtgga cctggcagca 420
atcgacgctn 430

<210> 22507
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22507

ctttcaagct tatgtnatna gtccatatga gccaatgagc attatacatt ttgctctgct 60
ggaaacaaga gaaaaacaaa ccaatatata ctttgattca aaggggtgaa caaatatata 120
atccatatgc atcgaatata tagcatttat attcgcgagg ctgatgttct caatcatttc 180
atggagatgt tatcatttcc cggtgaaaa gcaaaaatgt aaatactgat tttcgtttct 240
atagtgtgct gataaaattc gttcccaaag atgaaaactt acattttacg ttctcgaaag 300
tgaaaaagtg tgataaatat attcattcat taatttttat ccgttacaag ttatgaagag 360

<210> 22508
 <211> 258
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22508

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 accttnggcc cactgcccc ggaacggcgc caaatttggc cgaggctgta cctgaatcaa 120
 ataaacatta aaaatgcagt atctaggaag cgatcatagg tcgtctccca acgagcaatg 180
 gttaacaaaa cgttcataat agatagtaat ataacagtta cgaatgggag gggggggggt 240
 gtatattaaa cataaaat 258

<210> 22509
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 22509

agcttgaaac acgctcttta aaggataaaa gaggacaaat tagaggcaaa agcgggggcca 60
 gaaattctca ccaattcaat aaagagctca tcatttactt tcttgtatga cagaggctgc 120
 atggatgcaa aatacttgat gcacacctgt cttgcttcag gcttttgagc ctgcaaggcc 180
 ttccctgtct cttacagcac cttctgatac acttccagtg tcctctccta caacacaggt 240
 taaatgccgt ttagcaatga gtgaacaata acgaagaaaa tataaaggtc aaacgtaaca 300
 cactaaaagc atgatgg 317

<210> 22510
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 22510

aagaataacc acaagtgggt cactgaaagg aggggaaaca aaactattat actataaatt 60
 atcttttacc gtacaccaca tgatgttgcc gttgttgcca tctaaagccc atgcatagcc 120
 acttttctga accgcaacaa caacatcttt cttgggttcca tttatatata tggacaacat 180

cattggtgcc tccccagaat cagcatcttg ccaaaaacct ctgggtggac aattaggagc 240
tgaagcattt atacatgcta agataaatat atcgaagcct ccacactggc ggtaccatct 300
gatcttcac gaatacaaat caacggctaa tatcgaattg gagtggatgt ctggctaata 360
cactcatctg 370

<210> 22511
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22511

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caacaccggg gaatgtgggg aggttggtga ttataaacct ctagggctac cgattcgcag 120
tttgagatcg gttgctagag atgtagatag ttctagatat gccaatgaaa gtgattccag 180
ttcagtttca aggggttctt ctacgggatt gggtaagagc ggagataggg aatttgggga 240
tctgggtcct tccaatttgg agaaaaaatt taatgatgct gctgctgctg gtggatcagc 300
ttctgcgatt ccctgggtgct caacgaatag atggacggaa agggagaaga catctggcaa 360
tgttaccagt ccttcgcatg ttatgccact tt 392

<210> 22512
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22512

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tattccgcaa ttctgagcat agcactgtat acaaaggagc tttaaattatt aaagaaggaa 120
aattgatttg aaacggacaa acacataaca ttgttaatca gagcaaatat tattaatatag 180
tgaaaattgg aatggatgct agcacatata atcagtcata gcctcaccga cccatcaatt 240
cgacaacctc aaagtacaaa cctttgagca agaaacctca acttcagaga gaataagaaa 300
cacacacaca cacgcagaga gagaggaatc caaaaaaggc aacaggaggt cgagagatgc 360
caaaatgcaa aaactcccta cattctcttt tgtctccatt ggaaaaatat caccttanna 420

cagtca

426

<210> 22513
<211> 380
<212> DNA
<213> Glycine max

<400> 22513

agcttggagc tgaggaacgg cgcacgttca tagagaagct tattaaacac attgagaatg 60
ataaccttcg attgctgcaa aaattcagga aaagaattga caagtaacca tttctcttag 120
tttactact ctttctcttt cctttttag ctcgtgttgc ttggagatgt ttcactaagt 180
tttattaaat tatgaatcat gttagaagtc aaccaaatta ttatttatca cacttcttct 240
aatggcaaaa gttacaatat aagtctagct caaatgtgtc atggaaaagg ataaaatata 300
aagttaaata taacggcaca gagaaaacac attttcatct agttaagtat ctggcgtgta 360
agtttatggt gtaatagatg 380

<210> 22514
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22514

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gcatctggct atatagtcgt ggcattggcat attactagat attatacact cagaattgtc 120
ccatacaaca ccagaagcgt cacaattgtc tcaaaaattg ttaccaccaa attatgttct 180
taccgccaga agtgttgtgt atggaaagca agtatgagct taacaaatcg actgcaaatt 240
acttagatgc aaggacaatt taagtcagta gaccacatca agttattgca ataaccctta 300
ccaacatctg atgtacccta atgaagccga gggacaaaga atat 344

<210> 22515
<211> 381
<212> DNA
<213> Glycine max

<400> 22515

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tcacaagttc ttcaagggaa ggttgcgag aagcctcaac tatttggtgt ttctgggggt 120
gttgctggtg ttgttggtgc tgttgctggt gtgaatgatt tgaccatcta aggttgggat 180
gattcctcca cccgggattg tacctatttc tagagaggtc atagttgttc ttttgtggct 240
gattttgctg ctgaggttga gggggtctat tgtagatggt tgcagcataa gcttcaagct 300
gttcaattgc ttcatttgt tgacaaaaag gcaaagtct gtgtggtggt cggcaaacga 360
tcatatacca tatagtctac c 381

<210> 22516
<211> 528
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 22516

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ccgatttctt tcacttatac acccaataga gaggcggagt gggggtgcta tgtgatatac 120
atagtccacc acacctacat gtgtaaaact caagtcgtaa ctccaacgtc acatcgcttc 180
tgccgcacaa gacaaccttc tcgccacggt ggcgttagaa cagagaaaag gcctcgtgaa 240
cgcatcggcg ctgtcccgac ataatgcgac agccgtgata tggtagaaat ggcgccgagg 300
aagcggtaag ttatatctct tgacgcatga cgtgcaggaa gcaccacacc ggggtatggt 360
tgcgctactc cgtacanagc gtgtgctgat agcgcgcata tgctgagcca acgctcgaca 420
tgccgatcaa ctgccgcttg acagctacta ctgtgataat gagtatggca aaaataacga 480
taatcttagt gccctcattt gcctatacgc aacgcatggt ttgtctcg 528

<210> 22517
<211> 408
<212> DNA
<213> Glycine max
<400> 22517

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ttcctcaaaa aggaagttg gagttgaaaa attgcaatac caatgagtag ttggctgatt 120
tttaacaaaa tctcttaata ctgatcgatt caagctaata agagacacca taggggtgct 180

gtctattgct aatctaaatt acacggaagt gttgtatata attcagttag tggttatatg 240
 ttagtgaatt gttaacaaac tacttgtaaa tgtgtaccat aaatagtgat gctctgtata 300
 tgtgataaaa agaagtaaga aataaaatct tctattcaat accatatctc ttatcttggt 360
 ctctctcttt tcttctctgt tcatgtaagt gatctcattc attctgag 408

<210> 22518
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22518

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 aatagggttag ggtttgatac tgagttctgc aacagccaca tatggttcat tttttcttt 120
 aatgcaaacc ttcacaccta gctcactaaa atttaccatc tgtttagat cagtgaaga 180
 cagcatgata ttgtacaatt agaaatgtgg tgcttgaggt ttaaggaact agagtttaca 240
 tgataattac cttattagga atgtcattgt cggttgattnt agtgatgata ctgcaatctg 300
 tttcttctct ttgctcccct gatgagtnta ttgttgttga tggagataga gatgaggaat 360
 tttgggttct gcaaacaatgc aaaaaagcca tccttattag aaaaataagg tatttgtag 420
 atac 424

<210> 22519
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 22519

agtttatatt aatttagtct aaactttcat aagctattta agctgagtct agtccaacaa 60
 gagggatctg aggatgaagc ttagtttaag ttagtctaaa cctatgaggg ctgtctaaat 120
 taagcctagt ccaacaagag ggatctgagg aggaagcttg gattgattca gcctaattag 180
 ggatcgaggt ttagtaattt aggtacaac atagaacaca atagcacgat tgattagaga 240
 aacatcttta tatacatcag cttgtttggt agaaagaccc aacaacactt ttacctactg 300
 ctgtcaatct taattaccta tatttctact gggttttagcc tagacttagt ttaattttgt 360

tctacattac caatgtttct ttcaacaatg cctta

395

<210> 22520
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22520

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tggagatatg tcgcggggggt caagagacct tggggacgtc aggtgggggtg ctattgcccc 120
aaaccaagct tgaccaatcc cgacccaacc cgggcataat cggtcagtga gaacctgtga 180
tgtacctaaa caggcgagct cctggcagtc aacagataaa aggaacaaag accacaaagc 240
atggaggctt gtggtggctg gccagttgtg aattattgtg tgatatatgg gttgtggcct 300
ctggtaatcg attaccaatg gagggtaatc gattacaagg cttaaaaatg aagataggag 360
gctaagatgg tctctggtaa tcgattacca cggagtgtaa tcgattacca ggcttgaaaa 420
cgaggt 426

<210> 22521
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22521

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caagtttttaa attatcaaatt tacctcaact aataaaacac atacaatttt taactctttc 120
ttttgcaact cctcaagagc tttctgaaaa aatctgcatt cttctagcaa ggagatctgg 180
atgaatacat tcgatgcaga aaatcaccat gtcagggaaa tattaacagt ggcatatgaa 240
ccatataaaa gacttcatat tcctaaacat gcaattctag tgacaacaga natatttgca 300
ttcaaaacaa aacacaattt acctagagca agacatccga aacatgaaaa tatagatgct 360
gagaaagtgc tctatttgag ttataatggc tataatgcat a 401

<210> 22522
<211> 404
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22522

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tgaattctca ttattagttt caaggtagc acaataataa atcttctcta tttcacatta 120
attgtgtgtg agcatcttta ttatctttat catttttttt tctctgtgaa ttcttaattt 180
tcaaactaaa tctaacatat gccaatgtat agtttaatat ataaaaggag aaactattgt 240
aaaatataaa attcaactct tacacataaa aacaaaaaat gtgtagagat agacatatat 300
tcagaaaaaa taattaataa accanaaata acatangaaa aaaacttaca aaacatgatt 360
ntgtgtaggt aaaaccaata aaataaaaact tttactacct atgg 404

<210> 22523

<211> 487

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22523

ggggatgtat ttgtgcgtcg ctagacgtgc actatagata actcaagctc cgctagtctt 60
ttcaacacca atactctntc actaagtctc taaaggatcc acaacacaac tcaatagttg 120
tatgtccaac caataatcca aactaactc accaaatagc tttgctacca taattcagta 180
acagtaatcc ttagtaagta gtctatgaag tattcttttg ccaagctttc atagactttt 240
caaccaata ttctttcact aagcctctaa aggatccaca acacaactca atagttgtcc 300
aaccaacaat atatccaaca ctaactcacc aaatagcttt ttaccatac ttcagtaaca 360
gtaatcctta ctaattagcc tatggaagca caatctactt caaggacttc actctagact 420
ctatgttggt ntatacttgg aaagaatgga tacacaaan aataaaatgg ctcataaaca 480
ctcatta 487

<210> 22524

<211> 401

<212> DNA

<213> Glycine max

<400> 22524

tctttcaagc ttattgcaac ttattcatat acgcaactga acgatagctg acgagaaaac 60
gtatatgctc ggacttaatg cgggctgcag caccggctcc gcttccctaa ctgtactaca 120
ggcgggttgcc gaggtctctat cctctatggt tctatggagt ttcaacatga cctgtgagat 180
agaagacaca tgagacatta atgaccttct tatcgacagt gttgtttagt tcctgtaggg 240
ccttattctg catcatttga acataaaaatt aaatccacta attgtatagt tagaggatcg 300
tccacaaaac actgatgggt tgatataaat tataaattag ttcttcaata tatttaaatga 360
ttactaatat tgaaattaca tatgtataat acatctgacc t 401

<210> 22525
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22525

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gtangaattt gagtgcagca caagaaactt cagttgcttg aatttcccaa aaatctcctg 120
cacctcccca ccaaatttat tcctgcttaa atccaagatg aacaaatggg tcaagttcaa 180
aagggtctct gggatatccc tcgagaaagt gttgttcccc aagaacaatg catcaagacc 240
agaaatggaa ccaatttcac tgggaatatc tccagtaaaa ttgttaccag aaagggtgag 300
aaccaacaaa ttcttgagc tagcaacctc ctttgggggc ttaccgtcaa attcattaac 360
agaaagggtca agtttttcaa ggctacaatt gattggaaaa gccttggaag gaacaacccc 420
tgtgagaaaa ttct 434

<210> 22526
<211> 401
<212> DNA
<213> Glycine max

<400> 22526

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taatcaaatt ccaatattat acaaaatggt ggaagatgga gacgagaatt ttcaactcac 120
aggacaaaat ttagtcaaaa ctagaatttc tccactagga tcaacagtat gtctagccgc 180
tagggctctc attacaattg accttgctgg taaccatgaa ttgacatgaa atcgaacact 240

ctgcaaatga ggagggagct atctcaaaca acaaagcaaa aggtaaaaca ggcaagataa 300
aattcaaaac cacttattca tgttaaagtt caacaagaaa gtacacaagt gaagacttac 360
atccagaaac tcaactgccag caagagccat tgcacgttga a 401

<210> 22527
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22527

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tagtggccaa attgtgaggc gcaagagcaa gaatatgcc aagttgtcat cttggcgacc 120
gggcaaaagt ctcattcatta gccaatccat attggtgctt attccaagc acaactaaac 180
gagctttgta acgatctatg gatccatccg agcgcagctt tatagagaac acaaacttgc 240
tacttaaagg cttaacagat gtgggacacg ggactatata ccatgtttga ttttcttcca 300
atgctagaag ttcagtttca atagctntct gccacaagc attcttcatg gcctggctat 360
aagaggaagg gataggaata aaggataatg aggctgtcat ggaatggata tacctgtctg 420
gg 422

<210> 22528
<211> 387
<212> DNA
<213> Glycine max

<400> 22528

agcttcaaca tatgttcgtg agctatgtgc aatcactggt gtggtaaaaa aaatggaggc 60
agtatttgct tggacattcc ttcattatcc tcaactgataa taggagtctt aaggagttga 120
tggcttaaat cattcagacc ccagtgtat cttagattaa tgggctatga ctttaccatc 180
caatataggt ccgcccattc aaatttagtg gtggatgtgc tatcttgcac ttccaagggt 240
tccaggggta tggcttcttc actgtcgatg cctcatttca cattcttaac tgaactcaaa 300
cgttaattag ctgatcacca agagttcata gctctccggt gagacctaca ggaacatcca 360
gataatcacc ctgatcacac ttacaca 387

<210> 22529
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22529

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 attttaaaag ttgttacata tagtattaac ttttggaat cgattacatg cgttgtataa 120
 tcgattacac tgttttaaat tcaaattcaa aatttataaa actgtttcaa aaattatttt 180
 agttattagt aatcaattac atcctctagt agtcgattac caaagagaaa acatcttatt 240
 tttgaaaaca taattttact tacaagtttt tgtaagatat tttcctctgt caaacttgtg 300
 cagcatcatc taagaaattc ttttcaagat cctatgaact aagtacatcg ttcttcttga 360
 atttttttat tcttgactta gatcgtgctc atctttgaca tcatcaaaac ttcatatcat 420
 atatgcttct gcaatacttt tttcactatt gaattangaa tgaatgaggg tttt 474

<210> 22530
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22530

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 gcttagctac acacatcccc tataataggt aagctcacc ccatgccaaa atacatgaaa 120
 atataaagaa gtcctaata caaagactac ttaaaatgcc ctgaaataga aggctaaaac 180
 cctatactac tagaatggcc aaaatacaag gcccaaaagt aggaaaaacc tattctaata 240
 tttacaaaga agagtggacc caaccttggc ccatgggac aaaaatctac cctgagggtc 300
 atgagaatct tanggccttc tttagcagct ctagcccaat ccttttggag tcttctatct 360
 aatacccttg gggggtagga ttgcatcana gtcg 394

<210> 22531
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 22531

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tttatctttt cgtttggggg aatgctgaaa ctttcctttc tttttcatca ttgtttcaaa 120
cttcctagac ataagagcca cttaaatacat ctgtggatcc ctcagaattg ttattaaagc 180
catcagactc aacaatatgc acttttagag ctttaggaga gttattcttt tcttcttgtc 240
tgagagctaac ttctatagtt ttgagggcag caaaatcttt caaaggtaga tgatcttggc 300
aaagctgtct agaatactca aatgtatcta agatttggtg aaggtttgtc ttagagcttc 360
aagaccactc ataagcactt aaagtcttcc aaacatgtca tccacaaatt ctccttcttt 420
catgg 425

<210> 22532

<211> 391

<212> DNA

<213> Glycine max

<400> 22532

agcttgacca atctttaccc aaccgggca tagtcggtca gtgagaacct gtgatgtacc 60
taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac taagcaagga 120
ggcttggtgt ggctggccag ctatgaattt tgtgtaatat gtggattgtg gcctctggta 180
atcgattacc aagggtgggt aatcgattac aaggcttaaa attgaggaca ggaggctaag 240
atgggtctctg gtaatcgatt accaaggggt ggaatcgatt accaggcttg aaaacgaagt 300
caggaaactt atggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagat 360
gaatgggtca ctggttatcg attaccaggc a 391

<210> 22533

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22533

taatgcggat caagttgatt cgcaagtntt gtgcggatct acttgttctg cagtaggtag 60
ggttctctga ggctgaatgt ggatcaagtt gatctgagag attcatgggt tagcatatgg 120
atcaagtaca aggtatatga ttcacaggag tattttcgat gaagttcctt catgcggatc 180

aagttgatcc gcatgaatgt atttaaattt ttaaaaataa aaattagttt attattttatt 240
 aaaatgctat taaattaagg tttaggggtca attttgaggc tgccttgtca tgtgcctaaa 300
 aaggattaca accacatgaa taattatttc cttggataag ataaatttta gtgacccta 360
 .tataacactc ctcccatgag ttataatcag aaccacaaga tcgtgggctt a 411

<210> 22534
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 22534

agtttgtcca tggttcagac atgattgata catgatttag gactttagg attcaatttg 60
 ggcaaaattg gatgagggtca aatgtgattt cgaaaatctg cactttatgc aaaattttgc 120
 tgtcaaatat gtgcagcaga attttggctt tgtgcagaaa atgttgtgta tttgctgggt 180
 gtggaaagag tagtacagat tggattctgg atgttttcta gaagatccca atggtcacaa 240
 tgtagactta tgtgctagag acttccagta aaattttcga gtcgatccaa cggttaacga 300
 attgtaacga agagaatgtt actgggggtat ttaagtgaga aaagctgtga tattgggttg 360
 tgttgggcag agttttctgc ctctgccctg tt 392

<210> 22535
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 22535

tatgctgcaa acatctacaa tagacctcct caacctcttt cagctaaatc agccacaata 60
 gaacaattat gacctctcca gcaacaagta caatctcggg tggaggaatc atcccaacct 120
 tagatggtcg aatccttcac aacagcaaca acaacaacaa ccttattttc agaatgttgc 180
 tggcccaagt agaccatacg ttctccacc aatccagcag cagcaacaac aacaacaaca 240
 acaacccag aaacaacaaa cagttgaggc tctccacaa ccttcccttg aagaacttgt 300
 gaggcaaatg actatgcaaa acatgcagtt tcaacaagag accagagcct ccattcagag 360
 cttaactaat cagatgggac aattggctac acagttaa at caacaacagt ccagaaattc 420
 tgata 425

<210> 22536
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22536

agcttttagg cagtttatac cattgtatgg agaatcgctt ttgttggtgg ggtcatgact 60
 actacccatg ttacagccca acaggcacta caaagagaga gagagagagc aagaattaga 120
 gtggctggct aatgttgtgt tttgcttgct gtttgggtggc actaaggaca tggacactcc 180
 cttcatctaa tattccttgt ctagattgtc atgttcaatc agaaaacacc aattgaaata 240
 gaatcgggaa ctctccacac caataaacag ggctgcagat ttttgttttt tgttttaatt 300
 cgggaaagga taatggatct gatgggcaaa caaatataat gcagcaagta gttntctca 359

<210> 22537
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 22537

taccagctga agatccatct gccatgaaat atgtgagtcc cttttctatt tctttttgtc 60
 ttttatgaac aattgagatg caaacccttg gaaattgagc tcttcataca acttggcagc 120
 ctgaagattc agactgggat gaatttggca atgatttgta ttcaattcct gatcaagtgc 180
 ctgttcaatc aagcaactta attccagagg ctctcctcc caacaaagct gatgaagaca 240
 gtaagattaa agcctttgtt gatactccag ccttggattg gcaacggtgg gtagagtatc 300
 ctcttttct tagttgtgtt gtttgggtgca tgtagtcac acagaatgga aataagtatg 360
 atgataataa tcaatgaaac aaaaattact aattctttcc cacctac 407

<210> 22538
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22538

catttactat taaagctgtg aatgcaattc aaaatgtata agaaaatccc cgatcaaaga 60

ttggaggaaa acaaaggaaa aagaaagatt cccgatcaaa gatcggaaga aagcaaaaga 120
 aaatatatag aaaggtcgtt ggaccacaca atatctgaat aatgtacaaa attgtcacaa 180
 gcaagaaaga aaagaaaaac aaccatgact tgagacgcat gaagcaatcc ccttctttgt 240
 taccaaccaa atctttgtgc tcgcatctct ttcacactgt gccaaaagaa aacagaaaag 300
 gaaaaggctg aaatgctcag agccaaatth cccacaaaaa acaccattcc cgaaaaagtc 360
 atgttagtcc atgattgctg atgttatctt tgatttgata ggaaatgatt tgcaaagtca 420
 agtcatgaca tan 433

<210> 22539
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 22539

agcttgagat gatgaagtgt agaagggtga aacttctgc tttattcat tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtta ggagacctg gggacgtcaa gtggggtgct 120
 attgcccaaa accaagcttg accaatcccg acccaaccg ggcatagtcg gtcagtgaga 180
 acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaag gaacaaagac 240
 caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa acttgattga tatgtgagat 300
 atggtctctg gtaatcgatt accaagggtg ggtaatcgat tacaaggctt aaaaatgaag 360
 acaggaggct aagatggtct ctggtaatcg attaccac 398

<210> 22540
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 22540

ctaagcttct atataagctg aaccatttta tcaataaaca caagttgagt tttattcaga 60
 aaatttgagt ttatctcttt tatcttagtg agagtgattc tcctaaattc ttgagtgatt 120
 caagaacacc ctggctgtat caaaggactt tcacaacctt tgtgtgttgc cctcgccgga 180
 aagagtgatt ctttccttcc tttcatcttc aaccttgctt tttcaaatta caattccaga 240
 aaatccactt ctgcccagaa ttatctctgt gccataactc ctgttttacg cactcaaatt 300

aagtgattct tgagcttaaa ttgaatttca agacgagacc tttcacctcg tgttggaaac 360
acctcatttg gagccctgta gcttgagttt tttccatttc tatatttctg tccagccacc 420
acttaaccta cattgtctca 440

<210> 22541
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22541

agctttatga tgatgaatca agttgattca agtagttttg atgatgacaa aaagctcaag 60
agaatgattt caagattgag tcaacaagtt caagatcaag attaaatcaa gaagattcaa 120
gattcaatag aagtttgatt tcaagattca agagaagaaa tcaagaagac ttcacaaggg 180
aagtattgaa aagatttttc aaaaaacaaa catagcacag ttttggtttt caaaagagtt 240
tttctcaaaa ttttctaagt taccagagtt tntactctct ggtaatcgat taccattttc 300
ctgtaatcga ttaccagtgg caaagtttga tttcaaaagc ttttaactgg aattgcaaca 360
tttcaattga tcttttatatg atgtaatcga ctacaatata ttgg 404

<210> 22542
<211> 395
<212> DNA
<213> Glycine max

<400> 22542

gcgatgccct tatattttcc ctttcctaata taaccatgcg ttgagctcca tgtgcaataa 60
atgtgccacg ctgttggtg tgtgtgatgt atttgttaca aatgggttta tgatccctac 120
atgggttggt catggtgcct aacacatgca tctgagaatc gagtgtgaag ttgcacgctt 180
ccccctttgc gtgatatctt ttgtaaggaa aacgcaatga tgatcatact tgagaacaaa 240
tggtatgcac ttgtgtagat caaaaagttt gttgaatgca tatgcatgat gatgccatga 300
ctcatgcaaa atgtgatgct ggtatatgat cacggacaaa tgcaggatca tatgttcggt 360
atgacttatg aatagatgct gatgctatgc atgat 395

<210> 22543

<211> 388
 <212> DNA
 <213> Glycine max

<400> 22543

agctattgtg gtcctttctc tttatcgcca gggagtctct acatgatgtt gtgatatttc 60
 ttgcgaaaga agcacaagca aggaggtatt gttgtgttct aaaaacaaaa aataagaagt 120
 cacaacaaat atattatcta aatcatgaaa attcaaaaat gaaacgtact tttagaagat 180
 gaaaacatga atttttattt tattgttttt ttgctcttgg tttgtatcaa tcacaagtga 240
 ttcatttgtg tgatggttga tatgcttgc caacaggaac agaaaaagat atcttatcga 300
 ccgtataatt gacatcccat aatagattga acctgagttg ggggtgtgaat gttgtatcta 360
 caaggcacct actagtcttt tgaatgtg 388

<210> 22544
 <211> 201
 <212> DNA
 <213> Glycine max

<400> 22544

gcaagagaca aacgtctctc ttaacaagct aatctcgtgc ttagcgtgca accttgatcc 60
 ttgtgctctt tcagattccc ttgtcacgct aagcgcgctg aaccactgg gtccgcttag 120
 cgcgactgct tctttagca cttcaagact ctatcctcat ttgacctgat attgaacaaa 180
 tttcatcatt aaatctaata g 201

<210> 22545
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 22545

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttataca agtggcctca 60
 gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaata 120
 tctatttcac ttttttactc aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180
 attcaacaa agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
 aagagaaaat gcaaactcag ttttatactg gttcgaccac acccttgtgc ctacgtccag 300

tccccaagca acccgcttga gagttccact atcttgtaaa ttcctttttac aagatctaaa 360
cacacaagga caatccttcc tttgtgt 387

<210> 22546
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22546

tcttggaag ccagtgggtg gaggacaagg ctggattggt aagttgattt gtgagattca 60
taatcatgaa ttagccaagt cattagttgg acatccatat gtcgggcat tgactaaagc 120
ttgaaagaca cttattgttg atatgatgaa gtcaatgggc aaaccaagaa acattctgct 180
gactctgaag gagcacaatg ccaatagttg tacgaccatc aaacaaatat acaatgcaag 240
aagtgcatat cgttcttcca taagaggaag tgatactgaa atgcaacatc taatgaagct 300
tctcgaatgg gatcagtata ttcattggca cagattanag gatgaagacg tggttcgtga 360
tatcttttgg tgtcaccta atgtagtga gttagtcaac acatgttat 409

<210> 22547
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22547

gggattgatg tgacgcccta ttagaaaccc gctggngan atactccacc ttttaagatt 60
tgttaataga aatattgtca aanagacag aggtatacaa ataatcaggt cccacatttc 120
taaagattgt agaaaaaagt attaaaaata aaaaaaatat aacaaaaaac attgtttaga 180
tttttttaac gtgtacatta ttttatatat catttggtga aaaaatttat attgtatta 240
tttgggtaat ttttttga ttaaataaggc actattagaa aatatgctgt tcacatcgg 300
tatttatgac tttctacatc ggtttttaac cgatgttgaa agtattatcg ttaacaccgg 360
tttttttaaa ccgatgttaa tgtaaaattg acaacatcgg tttattaaac aaccgatgtt 420
atataataag atttacacca aaaaaatata tgaatgg 457

<210> 22548

<211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22548

tttgaagct tgaactctga tactgtacca gcaacttggt gcatactggt gactatcttt 60
 cttgacatcc ttcaagttcc gtgcgaacttc ttcagagaag ttattcccca ttacctctta 120
 tgcgatctct ttcataattt ctcaagtctgt gtcaatcttc aactgactcc ccattatatg 180
 tgttgngaca actccagatg tgtggacatg tgtgtggagt atatgatctt attgctacat 240
 ttgttatcga gttctctgat tctgttgga tctgtacgc tgcatttttc catttatact 300
 acgatctgat ttgctatctc tttgcatgat ctgat 335

<210> 22549
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22549

ttannaattg atttgaaacg tacagtaact gttggtattc tattaccata tatgagtagg 60
 cgattacaca ttgcatattt tgaattcaaa ctataatagc tgttgtaaatt gatttttggc 120
 cactggtaat cgatcacatc ctctggtaat caattaccac agagtaaatt ccttgaaaaa 180
 gacttttaatt gtaaactact tggccaatcc ttctgctagc ttaattggaa tggcctgctt 240
 atctaattga ccttcctat gacactagag acggtcttga tcatccatct tggatatctt 300
 taattacttt gtctcgaata aatctttgac aagcacgtga tccatgcgat cctttggcat 360
 cctca 365

<210> 22550
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 22550

agcttggtgt acttgatata tggagtataa ctctctggtg cttcttgat gggaggtaac 60
 tttttagata acttttttac tgccatagcg ccacatgcat gtcaacatct ttatttgctt 120

tgtgttataa attaaaaatc aagatgaata taaaaaacat ctcaaccttc tagaggacaa 180
gaaaaccagt aattatcaga atgtaactct tcttcaggat aattattgct atgacgtgat 240
tccagttcag ttagattggc tttcaatgaa tcaatctaga caaataaact ttcaacctta 300
cgagcaagct ttaaattgcat gtaaagttag tagcagaata gcataatgct aatgggggggt 360
atttggttaga aaccacaaaa tgtgttgagt ta 392

<210> 22551
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22551

ttggaagatt acagatggaa ggagccaaag tctcctgtta ctattgtttt ggtaaagatt 60
cacagaatta ccactctacc tgtgtagtac acaccagtcc aatataagga taggtttcac 120
aaaatcaaca atgaacacgg gacaattgag agacgagggt caagataaag cagaagatga 180
catagtatga cacaaaatat taagagtatt accgtgttgt gaaaggaaga gggaaaaacc 240
aagccactct tctcactaag ctactctttc tcataaccag gaatgaccac acattntagt 300
agtcttactc gggttcgttg gctttatttg tctctctctc ctaagtatgn ataatgcttg 360
ttgagaaatg ctcttactca taanaattta attctctgat acaagcttaa acttttttta 420
gcatgta 427

<210> 22552
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22552

ttcctgagaa agacaaggag agagacgaag agagcggaat acgcccggag acgaacaaca 60
ngggagtata gcccaactgc aaacattcaa tgagtatgaa atgctatgaa gactggtgag 120
cgaatcgaga caacatctca gtacagaata atcccaatga ttaacggtat gatcgatcca 180
catagaacac acttcccgcg gcaagtcaaa catgaatccc tgactcacga tagatacacg 240
cgcaacacaa ttaacagcaa tacaacacc ggctctaaca gggaatcacg ctacgagaaa 300

cacacgaatg ccacacgata atccaaaaaa cgcataacga atggatacga ctgacgccaa 360
ggaccccaga gagatgcaca ggaccacn 388

<210> 22553
<211> 389
<212> DNA
<213> Glycine max

<400> 22553

agcttggttac ttcattatga cattatttta gtgtcccata cgatctagag gctagcctgg 60
gcgagccagg ggtctaaaaa agcctccaaa tgaccctttt gccctccctt ttgggtattt 120
tccctattct tttccaaaac atcaaaaaac cttttgaatt gcacgacaag tgggtgttaag 180
caactcaatt tggctagcaa gaatcaaaat gttagcaaat gatagtcccc agacgaaatt 240
agggtatgac agttgccctt ctttacttat cttttattgg aaataaaagg gaagtaaaga 300
taaggacact aatttcgttt gagcaatctt gttattcgac agggcaacca aggaagtcaa 360
accgagaaaa catgaggaca ttgaagttc 389

<210> 22554
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22554

tcaattcaag atncaatatg gataggggnc ttggtagtat aagtcttcaa ggatcaacca 60
ttctattggg tatttgttca tgttgtgtct tcaagatcct atcaacatga tggacaacac 120
aatcaagatt gagaaattta taagaaagaa tagcttcaac ctttgatgca tcaagatacg 180
agccttggtg aaagaacagg gcatctaggc tcctccctcc tatcaattgt caaagattga 240
taagccagtg cttgagttac aagaggaaaa ggtgcattcg ctaatcctct aatctttatc 300
taatgaggtt ttttattggg ttctggctcg aattggagaa acttttcatg acaacatcaa 360
agaaatattt tgcgttgct cttgggcaga atgactcctc atcgg 405

<210> 22555
<211> 394
<212> DNA
<213> Glycine max

<400> 22555

agcttataga atatataata aaagaacaat gacaattgaa gagtctatac atgtttcctt 60
tgatgattct aatgccattc ttccaaggaa ggatttttta gatgatattt cagattcctt 120
agaagataca catattcatg gaaatgactc taaagaaaaa gatgaaggaa gcaatgaaga 180
ttctcaagat aatggagtta gggcaaataa tgaacttcca agagaatgga aagcctcaag 240
agatcatccc ctgcacaaca ttattggtga tatatcaaaa ggggtaacaa ctagacattc 300
tcttaaagat ttatgcaata atatggcttt tgtatctatg attgaaccta aaaatataaa 360
agaagccata ctagatgata actggatcat tgtc 394

<210> 22556

<211> 420

<212> DNA

<213> Glycine max

<400> 22556

taggaaccca aacttgtagc ttcaatgcat gtaaaccattc ttatggctag gaatccaaaa 60
tttggtttta gaattataaa aaacatgaaa attaggattt gcttgtgaga gtcacgctc 120
tattttgggc tgcccatgt ttgatacttt acatagaggt agtgtggaaa acaccttgca 180
atagtgtgta tacataggta aatataagga gcatgaaatt cctagcaaag tgtgaatgat 240
tgtcttccta aatgaatgta tgatagtgtg gaatgccttt ttgaaatgca aatatgtgca 300
ggatgtaatt tgctttccaa tatgcatata aataaatatg agtgaaaccg taaaaatttg 360
tatggtgtac ttcaaatgta tgtaagtagt tcgtgatagc aaatgttttag gatataaatt 420

<210> 22557

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22557

agcttttgca agctggaatt atttatccta tctccgatag ccaatgggtg agtcccgtcc 60
aggtagtccc gaagaagacc ggcctcacag tgataaaaaa tgagaaggag gagctgattc 120
ctactcgggt gcagaacagt tggagagtct gcattgacta taggaggctg aaccaagtta 180

ccaaaaagga ccattttccc ctaccattca ttgaccagat gcttgagcgc ctgacaggta 240
aatatcagta ctgtttcctt gatgggtttt ctgggttatat gcaaattact attgctcctg 300
aggatcagga naagaccaca ttcacctgcc cctttggcac ttttgcctat angaggatgc 360
ctttcggcct gtgcaatgcc ccttgt 386

<210> 22558
<211> 402
<212> DNA
<213> Glycine max

<400> 22558

ttccacattg aattcagcac ctaatgtcat attagattgt aattgggtat cttaacatat 60
gagatttcag atggacttta atcctaatacc catagccgac cttttcacga gatctctact 120
taaccctttg gttaaattgat cggccaaatt atgctgagtt ctcacaaact ccaactgatat 180
cacaccatgc atgattaact cccgaaccat gttgtgtcta acaccaagt gtctagactt 240
cccattatac acttgactat atgccttagc caaagttgcc tgactatcac acctgataga 300
catgggaggt ataggtttgg gccacaatga aatctcatag atcagatttc ttagccactc 360
agcttcttta ccagctgctg ctaaagctac aaattcatat tc 402

<210> 22559
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22559

ttcatgacag cttatgacta gcacacaatg gggcctatga agtgttacat aagtgatggc 60
ttggcctcac aatgaaaatg ggacaaagat ggataagcta agcttatagc taagaggcct 120
gaaacatgtc gaatgatgga tgatggacaa tgatgaatgg acagcgttga tgattggaca 180
atggacttgt gaattgtgac tgcaaccatg tgaggctttt ctgagtttca tacgaattat 240
tttagtagtg tgctgacatt tggccatgga tctcaatctt ctgaggatat angatacttt 300
catctgaata aagctaatac aggaccactc aaccaaacgg gatactcaag gcagatactg 360
ttcaactata catgtct 377

<210> 22560
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22560

ntggccctac tggggacact gttcatcagt ttaattattc aaccacaaag tttagtgaac 60
 aaanaagttt ttcaaatgat ttactgaaa atgaaaaacc cctcagttat tctccacaat 120
 caattcaggg tgggcatcag tattcacatg cccctcatgt tgggagatca tcagctggac 180
 gtccttctca tgctttggta acttttggat ttgggggaaa actcatcata atgaaagatc 240
 ctaatctttt gagctcatca tacggaagcc aggttaattc ttgattcctc atttgagttt 300
 tgattttttg ctttatctgg tttccgaaag gctttgaggt tgctcaatat tgtttccttt 360
 ntatcgtcta ctttcttatg agtgatttat caaaatgatt aacactgtaa attcatt 417

<210> 22561
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 22561

agcttgtggt ctattgaaca tattaaacct ggatagttga tggaaacatg aacagataac 60
 taatcagacg accgatatga aagacttcac agatcgaaat aacgttaact taaacaactg 120
 agttagtggc tgaacttaca aaaattattg gctgatgtaa gaaaataata ctaataattg 180
 acagtaataa gaagagtgtt aagagtacac tatagactgt aactagtctc tttaaccttg 240
 atgggtccagt gtgtatcagt aatatctgag tgatacttat gaacatacta atttgaagcg 300
 agagta 306

<210> 22562
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 22562

ttagcttact gaggtttaga atacttggat gcgcatgttc atatttcag atcttaacag 60
 tcctattgag ccagagttct actatttgta ttgcattact actaaagtga cctatactat 120

tgggtatacaa tataaatgac cattaggtat gtgttatgtt ttacatatca atatcaatct 180
 cctgtcatgt tgtcctttgg ttctcttttc ctctttctc agctatatat attttcacca 240
 actataaatg tatgatgtta aaactttctta ttaaacaatat taaacaatac catacacatc 300
 atgatctggt taggcctgtt aattttgcaa tcattcacaa tacaaaagat ataataaaat 360
 tctaacatga tttgatattt aagacttgga aaaatatcta taatgtctct agcatgtgat 420
 g 421

<210> 22563
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 22563

agtgtgggat gatttatggg gacccggtga cgagagaatc gaggatatgg gctacatagg 60
 actacgtgag actagttgga tgtgggccac aggggatggt cggtttatgc gcacattgag 120
 gatgtggaag aactagttgt gcaccatcgc ccgaccgga actattacca catgtgatgg 180
 gtacctcata atactacaag cttgagatga ggaagtgttg aagggtgaga cttcctgctt 240
 ttattgttga ccacagagtg gtacctggat atatgtctcg gtggtcatga gacc 294

<210> 22564
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 22564

agctggggct attccaagtt catttaccat acctttaagc tttattgctc tcttactcct 60
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 gctttccaac tgattgttgt accaaacaaa gtaaacaacat atcctgttaa ggatttcctt 180
 gtgtctacat ttcttgcaaa atctgcatct acatatectg tgattgctgc ctcatgtgct 240
 gtcttcttgt accttaatcc agctatcaaa gatccatata gataccttag tgttcacttc 300
 acaacttccc aatgcgcact gccagcatct cccatgagtc tgcttattat acttacaaca 360
 tgagccacgt caggtctgct gcaaaccatt ccatacatta tgctttacac acc 413

<210> 22565

<211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22565

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 taaacgagat gagaattggc agaagcgaaa ccttctgggt gctgcatata gacttcctct 120
 tgaatggtcc catttagaaa agcattgatg atgtccactt gtcgggtatc ccattttctg 180
 gtgactgtaa tgctcatgat tgtgcgaata gtggctgggt taataacagg actgaatgtc 240
 tcattgtaat caaggcctgg tctttgagat aacctttaag ccactagtcg agctgtgtgt 300
 ctgacttcag agccatcagc attgtatttc aagcaataga tccatttgga gccaatagcc 360
 ttctta 366

<210> 22566
 <211> 244
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22566

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 atgatcgga atggtgaggg cattcaaggc gtggttatcc acacaaaacc gccatgaccc 120
 gtcatgtttc ttcaccaaca aactggaga taaaaaaggg cttgttctcg attgaatgag 180
 acccttatgg agcattaatg ccacttacgc ttccatttca cacttctgaa agtgtggata 240
 tcga 244

<210> 22567
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22567

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 ttagttataa caatagaaag agaaaaaaga aacaacaag aacaacgctg gttggtggtt 180

ctgaaagcaa atgtaaactt ggctgggcca gatatgtcca ttaaaaaaa cacattatgg 240
 tggatatgtcc caaccatggg tacttcattn tgtcaaaca atttgtatcc agtaacctaa 300
 aagggcattg ttggtagggg tagccacggg tcagactgga taggatctgg ggcattnttt 360
 gatctgatcc aatcaatttt aaatgggtta gatagaattt tc 402

<210> 22568
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22568

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 gatattccct tcgatgtgaa ttaatgtgtt ttcaacttca gtttcaagtg aaaagatgaa 120
 gaataataag gttgttgtgg ctgatgtctc gttaagcgag acttgtgctc ttagcgagaa 180
 tcatccgcta agctaggcac tcagcctact tagcgagttg ggagaatctg gaggacaatc 240
 tgccaagcat ctgcacgctt agtgcgtcat caactcgctc agtgagccat ttgtcttctc 300
 ttgcgctaag cacgtccagc tcgctcagcg gaaaatcact tactcgact tagcgcgaaa 360
 atggcgctaa gcgagccttc gagggacaaa aaacccttaa tagatg 406

<210> 22569
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22569

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 tatectacaa gaaataacgt ttgatagaca acaatttggg aaagtatcag cttggagttg 180
 ccaaagctca gtcaagcttt tccaggattt caatgggtga acccttgctt tttacccatg 240
 tataagaata gcctccaag gtaaataatca ttcaaacc aaatcaaacac tacttctctg 300
 aaacctgtta tgagataatt cgggtgagaa gtttgaccct tcttttcac ataggagagg 360
 atgttattaa agtcttccat ggtacaccat angagagaga tg 402

<210> 22570
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 22570

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 taaacaatca tcatacttta ctagttacat tttctcacat accgcaagga agtatccatt 120
 ctgagagaaa gatatggcag ttactggccc agcatgtccg tcaaacctag caacatttgc 180
 ctacaaccaa tggaggaagg taagaacata gagaataaca ttgaatatta aaattgaact 240
 ttaaacaagt ataagaaaaa atgtttacct gactttttac atcccaaate ttgacaagag 300
 attctgtggt gccggttcca agaattgagac catccggatg aaaagccgca gatgtgtacc 360
 cttccgaaga acctgaagtg tcataaacct acacaactca tcattaattg tctgattcag 420
 aacttatgta 430

<210> 22571
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22571

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 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaattggt ttgactaatg 300
 atatccatga tattgttgag ctgcaggagt ttgttgaaat ggatgaattg cttcacanag 360
 caatccaagt agagcaacaa ttaaaaagga aaggagtgg 399

<210> 22572
 <211> 422
 <212> DNA
 <213> Glycine max

(The page contains faint, illegible markings or bleed-through from the reverse side.)

<210>	22573
<211>	467
<212>	DNA
<213>	Glycine max

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atgaactcta	ttgatctctc	catgaaaggt	tggatcaa	atgggaatata	gatcataatg	120
attaagaaag	gaggacaata	gggaatgata	gtgatcctag	acaaaacctg	cttgatggta	180
tttaactcag	cattcctcca	ttcatatgaa	agaatgatcc	tgaggcctac	gatgcgtgcg	240
agatgaaaat	agagcatggt	tcttcatgct	accactatga	tgaggaccac	aatgcgaagc	300
ttgccgccac	ggagttatcc	gactatgctc	gtgggtgggtg	gaacaagcta	caaaggaga	360
tagctagaga	tgaagagcca	atgggttgata	cttggacgga	gatgataaag	atcatgagga	420
agcgggatgt	tccggctagg	tactcaaggg	acttgggaatt	caagccg		467

<210>	22574
<211>	476
<212>	DNA
<213>	Glycine max

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aatgcgatca ataagtaaaa gaccatcccc gatcngagat tggaggactt cataggaaaa 120
 agacagattc cccatcaaag atcggaagac agctaaagat aatatataga atggtcgctg 180
 gaccacacaa tatctgaata atgtacaaaa ttgtcacatg caagaatgat atgaaaaaca 240
 accatgactt gagacgcatg aagcaatccc cttctttgtt accaaccaaa tctttgtgct 300
 cgcactctgtt tcacactgtg ccaaaagaaa acagaaaagg ataaggctga tatgctcaga 360
 gccaaatttg ccaccaata caccattccc gaaaaagtca tgttacgtca tgattgcgca 420
 tgttatctgt gatttgatag gaaatgattt gcaaagtcaa gtcatgacat atctat 476

<210> 22575
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22575

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 taggagcaag gtagtatagc caatcttttg tcaactccctc tagagaatga ggaaaatcct 180
 ttagaaagat atgatcttcc tggacattag ggggcttcat ggtggaacaa aaaatatgga 240
 actccttaag atgcttataa ggatcttcac ctgcaagacc acgaaacttg ngcagcaaat 300
 gtattagtcc agtcttgaga acatatggaa caccctcctc aggatattga atgcacaagc 360
 tntcataagt gaaatcaagt gcatccatc 389

<210> 22576
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22576

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 catgggccag caacaaaggc cgtaagtga tgaagccctt ccatgccaca tcaacaagag 120
 tttcgtgagt gtgggttgga ggtgtgaagg gcaagtcgcc atgatacatg attaagcccg 180
 ccaagagtgt tcaagcttgg tacattcgtg ccttcctaata ttccaattag gaaactagcg 240

agtggttgaa tggcctgagg ttcccggtgt ggagataatg taattcttta gttttaaccc 300
 tacagctggg cctaggcttt anggtttttc tccttgtaa ggcattatgt cttttgctat 360
 taagatatat aatacaagat ctttccttca tctattcttg catcttcacc cattctcatt 420
 aat 423

<210> 22577
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 22577

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 atgtttgaat attcttatcc tgccctatct atcttacaga agtctatccc atgccgaaca 120
 tatcaacatc caacgtccta gactatctgc aatcaacaac tatagatggg aatcagagtc 180
 aaaagacatt aattaccttc ttagcgagag tgttgttttg ttcttgtagg gccttatcct 240
 gcatcatctg aacataacat ctaatccact aattgcatag atacaggatc tatctacaca 300
 cgactgcggg ttgctatcat aaaaacatga attccacttg atctaaccat tacttcta 358

<210> 22578
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 22578

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 tatcaagtac atagtccttc aggtgcaagg gagtattact ttgtcttttg ggctcagcta 120
 tttgccactc gtttctgcta gatgtatcat taccaccgtc ttcaaataac accttgctct 180
 caaggtgatg aagggtacta aggggtgacc attcttccca cgatgcttca tcaggatgaa 240
 gaccctgcc a ttgaactaac actgggtgct ttgggectat gtccgagggc acgatcttgt 300
 gagccaagat agctaaggga actggaaccg gttgggtgtc catggccaat gacggaaggt 360
 gcatagcttg ttctgatgtt ggagatccga tgaagggttt taagatagag caatgaaata 420
 c 421

<210> 22579

<211> 378
 <212> DNA
 <213> Glycine max

<400> 22579

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 aagcttagac gagcccttgc agttcataat cagtattttg tagatgtcta cttgcgcatg 120
 catatactat agttaaacta ttatacagat gatgggcata aacttattga agcctaaaga 180
 taaagagtat actgggtgcc tgtgtggtga tgtgctatgc taaaagcacg gaacttggtta 240
 cccttggcca agttgtgtta gattcactta acctggttgt acagtgcata tacaagtctt 300
 tactcattta agacattatt acgatgtgta tatgctagtt aatatcttga gggtttctgg 360
 gcttcccaat acaagaat 378

<210> 22580
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22580

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 tagatggatg tacaatctca tcaacttatct tttcttttga ggtgttcaag gtgttatcgg 120
 agcttttttg aactatttaa aaatttatag aaagcttttt atagaaagaa tttaaagtag 180
 agagcgtaag ttcataacca tgtattcaaa gattctagta tttataggtc ttcttcaaca 240
 agtgttcatt gtttccatat ggatagactt gagctcgcgt ctaaagattg tggctgctag 300
 agaatttaat gcttgcctta aatgcatgta cttcttcatg ccggaacc acccttctga 360
 gcctttatgt tactt 375

<210> 22581
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22581

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gatgtctcct ccacctctag aacctcacag ttactcacia actcatctca agctctcagg 120
acggcttcct cttaaagctt ggttctctgc aggtcttcac acagcaaaat ctctcaaaac 180
tctntggaac ttggaccttt ctctctctag aaatctctaa tcatgcaaaa gcttcgagaa 240
ctgcccacaa tcctctccaa aatctgattt cagacttaaa taggtggctc tgtttatgcy 300
tgcttgacag cttagggcaa ctctgaaccg cttagcccg attagtgaat ntcggcttag 360
cgcgctgcttt tctcgctcag c 381

<210> 22582
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22582

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gcattagtct tttagattga catgatgcac aaaataggat gtttcatgct ataaaaactaa 120
ttccttttta ggttatattt taattttaaa ttctgttgaa tattttctcg ctcccttctt 180
gtgtggatgc agatgctgaa atcaatttcg gccaggaact ctgttaacag tgaccaaatt 240
aataccattg agcttgaact gcttttcata tacactntct gtgcttatga tatacaaggc 300
atgctgaatg acttangatc acattgtttt gtcttgattt aacttcaaca aattcatgct 360
ntatttggtg attctattgc agtataatgt ttgttaacaa ccaattagtg gaaagtgg 418

<210> 22583
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22583

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gaaaattttg caaggataaa ttccaaacat tttgatattt ataagaacaa aaaatatatt 120
ttagccttgt ttttattggt aaaaaaaaaag agaaatgcta ctaacatact cttaacaca 180
ctccttcata cacactttct cttatgtggt aaaatgtatt tagttgaaga acaagttcca 240
caaaatcttg aacctaccaa gtgtgatggt tgggattggt atgagtggga tcanttgcca 300

caccctttgg ttgggcctct tgagaaaatg gtcaaaggag ctttcgaccc atttccaatt 360
tgattctggt aattggtaat gatctttttg tgaggattct tggat 405

<210> 22584
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22584

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ctttttcttt ccttttctct ctctctctct ctctaattcca acgatcctag cctctcttcc 120
ttctctttct ctacccttcg ccgtctctat ttctactcgg aacccttctt gcccttgect 180
ttcctcctct cacctccatg acaacctcga tgacaagttg ttgccttcc cctctttctt 240
tctccctcca aatctaggac tccgacaatg acttctcct catcaagtcg gtccttccac 300
ctcctctatt ggctcaacc tgacactgtg caccactgtc tcttctccg atggatgect 360
ctacatcgac aaccagattt gcgaggggtg anggtggagg cnttgcgagg gtggacttg 419

<210> 22585
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22585

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catcatcagg aaagttcggc cttatggtgc aatagagttg tatgatccac aatttcagga 180
ccttgactga acatgggttg tgaatggcca aagattgaaa ctgtaccatg gtggagagtt 240
tgaaaaggca aacaccatct taaatttgat ataaccatt gaggtatatg cgtcaggcta 300
atgacgttaa aagagcgctt cctgngaggc aaccaactc tgatttcttt cattntgttt 360
ttcatgcatt gcataagttg gaatttgctn tatgatcatc ga 402

<210> 22586
<211> 429
<212> DNA

<213> Glycine max
 <400> 22586

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 gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120
 cattcatcaa agttacaaca agtcttacac atgcttctat ttcgcggccc aacaagcccg 180
 ttgacacgcg gagatttacg tcatcttccg cgatcacaag atttgtcata ctgacatttg 240
 agtcacgctg acaggcggag ataccgaggt gggtatccgt gtaatctttc ttttgctatc 300
 tctaagactc aaagcatgat agctagctga gtggataaac gtgcagatat atattatgcg 360
 ccctttatca ttcagattcc gcaagttggg tgataaacgc gcagagacaa attctacgcc 420
 ctttgtcat 429

<210> 22587
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22587

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 gtcaaaagtt atcgtcgatt tgaatctgta gatagcttac gttttcaatt atgagcgtca 120
 cgatatattc gggacacatt cggacaaccc agtacaaagt cattggcgat agaatctgct 180
 catagcttcc gctttaccat ctcgatacat gaatggatgc attcggacat ccgaataaaa 240
 tgtcattgac gggttgatttt gctcagagct tctgttctga attttgagcg tctcgatata 300
 cttcgggacc gattcggaca tncgagaata aagcactggc gtaaaatggc taagagctac 360
 gttttcacat acgacatcgc gatacgtacg g 391

<210> 22588
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 22588

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aaagtactta cctgctcccc atccccatcc ctgacccctcg tcgaggacaa cttatttccc 180
catatttgtc cttcgtggga ccatcaattt tatatatata tatatatata tatatatata 240
tatatatatt 250

<210> 22589
<211> 401
<212> DNA
<213> Glycine max

<400> 22589

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gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgtagcccac 120
ctccaactga gctcacgtac tcccacgtag tccatatacct cgtttctctc aacaccgggt 180
ccccatcaat cctcccaagc ttccccaaca tcaaagtaat gcaacattca aacagcacia 240
actatcacag ccaagaaaac agagcaaagg cagaatactc tgccaaaaca ccaacaaaaa 300
tcacagcttt tctcacttaa agaccccagt aacaattcct tcgttccaat tcgttaaccg 360
ttggatcgac tccaaatttt tactggaagt ctctagtaca t 401

<210> 22590
<211> 408
<212> DNA
<213> Glycine max

<400> 22590

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tatcgagacg ctcgaaatgg aacaccgaat ctctgagaaa attcaaacga caataacttt 120
ttactcggat gtcagattga gtccagaaat atgtcaagat gcttgaaatt gaagacaaaa 180
gctctgagcg aattcaaacg acaataactt ttactcggga tgtgtgactg agtcccgtaa 240
tatatcgaga cgctcggaat tgattatcga agctctgagc aaattcaaac gacaataagt 300
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aagctctgag caaatgtcaa cgataataac tttttactca gatgtctg 408

<210> 22591
<211> 397

<212> DNA
<213> Glycine max

<400> 22591

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gatgttgtaa tcgattacag gctgcctggt catgtgtaat cgattacact ggatggtaat 180
cgattaccag agcctatcct aggctagttt ctaagagaat atctatatatt atgctcaaat 240
acatcctata tgactaattt tcaactactaa tacactaaat tcaatcatcc aattactata 300
tacacaagaa atcataaatt ctatcataaa aacaagaatt caaacatgat caaacaaaat 360
aatctacaat caaaaggtaa aaagtaaatt aaccaat 397

<210> 22592
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22592

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ggggggccaca ttgcaagcat attcgaactt gccttttcgt agtccgaatt caatcctttc 180
tccggcgaag acgagatcca caaagttagc tggcatgtag cctataagct tttcatagta 240
gaacgtgggt aacgtatcta ccataattgt gatcatctcc atttccgtca tgggcgggtac 300
gacttgggct gcgagatctc tccatctttg ggcatattcc ttaatggact catgctctcg 360
cttagtcata ctctgaagct gggtccgacg gggagccatg tccgtattgt actgggtactg 420
cctaataag gaagttgcca agtcct 446

<210> 22593
<211> 392
<212> DNA
<213> Glycine max

<400> 22593

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aatgactaag tagcttaaag gtaccatatt ttttgatca cacaaatatt tactaccaca 180
gtaattacat gttatagttg attccttcat ttgattttta gaaataacct tgaattgatt 240
ataaacaaca aaaatttacc ttttaccact tgtatttgac tttcattttt gtgttggttt 300
tgggagttaa cattagaatt agcttttata gttacatttg tttcaattgg ttgtttatta 360
ggttagggtt catcaccacc acctcttggt tc 392

<210> 22594
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22594

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aggactaagt gctaaaattg cttatttggt tgtaagacaa taaagtgtc gtcattgtgc 180
aatcaaccaa caaatctttt attttggtgtt acagacaaca atgacttggt agattaaaga 240
atattgggtg taacaagctt ggagtaaac ttaggctaag gatctagaag tgatagtgat 300
aaatacttgt aacttggtga agttgggtgga acttagtggt ttgccatgga cagaacgtag 360
tcttggtgat tgagacgaat gaatataaat ttcctacgtc ttaatcttat tattttctct 420
tctgc 425

<210> 22595
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22595

agcttctact tatgtggcag ggcgggcttc cttcaccttc ttgtctcaa cgcgaacttt 60
gaccattgtt cttccttccc gcgatgcttc ttttcatgtc tgcttgagtg ggcttatagc 120
ctaaaccata cttcccacga ttaccttggg tatttatcag tctagttatg ccgccgttgt 180
tttttctaa acccatcccg ggctcataac cgttcccaa cataactcgg gccatcatta 240

ccgctgcatc ggacagactg ggctgccccaa agaggaggatc cacggaggaa atgttgacca 300
 cctcaaaaga ctgganagca gtttctaacg attcttctgc ggcttccaca taaggcatgg 360
 aggatgggca gcttaccaag atatcttctt cg 392

<210> 22596
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22596

tgccgccacg gagttttccg actatgctct tgtgtggttg aacatgctac aaaaggagag 60
 agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120
 gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
 ctgtgatagc tgcangaagt tgttgaaatg gatgatttgc ttcacaaagc aatccaagt 360
 gagcaacaat taaaaaggaa gggagtggct aagaggaagt ttaccaactt tggttcttct 420
 agttgga 427

<210> 22597
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22597

agttttagtc ctgttccaag gttcaatggt tgctaaaaaa ataattgaga ggaggtatct 60
 gggctgtaga accatgaatt gtaattgggt aaagattaca atttttttta aaaaattata 120
 cggtcactta gaattttttt aaataagaaa taaaaactaa aaatctaagt catgcaatct 180
 tatatgaatg attaagatat taagtttata atcatatatg atacttaaaa gagtaattac 240
 atttcacata agtatataag tagcgataaa cacaaccgta aatcttataa tacaagggtga 300
 taacaaatga ggttagttta ctattgcccc tctaatactc gagattttnt ttcttcta 360
 tactacattt gcgaaattga ac 382

<210> 22598
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 22598

aactacgctt actctaatat ataattaacc gcattttctc tactattata agaaagaata 60
 aggggctaataa ataatgtgaa aacacaatac tggaatttgt tcactgttta tgttgttctg 120
 aattttcttt ttttgaataa tgctctcaat atttttccat gcttgatttt tgcataatcgt 180
 gatgtttcaa ttaattaaac tcgttcagcg tccagatttt aaaaaatata actgatacat 240
 attagtatga aagatgtatt ataattgtat atttgtatgg tcgtcgagag agactgacat 300
 taagaacaat tcttcttagt acacatttgg attgggtcta gcttgtttaa tgtatcagaa 360
 gtgtactata attg 374

<210> 22599
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22599

agctttntag ctcatgctac aggaattggc aaccaacgtg gcttgtgatg tttctctccc 60
 agccgacaat tatccctttt gggtggccca tacaagtgag ggacattccg tgtatttcac 120
 tgtgcctgag gattgtcgct tgaagggaat gattctatgt gttgtatatt tatcaacccc 180
 tgaaatcatg gcatccgaat gtctaattag tgtcttgata gttaattaca caaagtgcac 240
 catccagata cacaagcgag acacagtaat ttcctttaat gatgaagatt ggcagggcat 300
 aatatcacat ttgggacctg gagacgaagt ggagattttt gtgacttttg ngcatagatt 360
 ggtggtgaag aagacagctg tcta 384

<210> 22600
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22600

tgtaggttat agtgacaatg attgngctag atatgaatat gatttataaa ttactagtgg 60
 atttatgttt tcaaggggaa tacaaccttc acttggatgt caaaaaagca tttgatagtc 120
 actttttcga cctgtgaggt gaaatacata gcagctactt catgtgtttg tcatgcagtt 180
 tggcttaaga atttgttaaa agagttaggc atgtcacaag aagagccaac caagatcttt 240
 gcggacaata ggtcaggcat tgctctagca aagaatccag tgttccatga tcgaagcaaa 300
 catattgata cctgttacca ctacataagg gagtgcatag caagaaagga tgtacatgta 360
 gaatatgtga agtctca 377

<210> 22601
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22601

agctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcaaaaaa gaatagaagg gaaatttcca atcaaagaaa aagagaagga 120
 aaatttccaa tgaaagcaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgggaga 180
 aagcaaaaag aaaagaaagg aaattcccaa tcaaagaatg ggagaaagta aaaaagggaa 240
 ggaaagaaag ttcttgaagg aaaaacagaa ggaatatgca gagaggtctt tggaccggac 300
 aatatctgaa caatacagaa ttgtcaccaa atgaacgaaa aaagaaagat agggaaccac 360
 gacctanaat agtcttctcc ctttgat 387

<210> 22602
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22602

tacctttgtg agaatttgag ccattcatca tcttaatctt ttggtgtggt ttgccccatt 60
 gattgcttgc acaatagcct tggcttaatt cttgttcatg cttcctaatt cacatgcata 120
 tttggaaatg atttaggcaa tttgttctt ataagcttct agccaaatgg acttaccttg 180
 aattaattcc tttgatagcc ctttgagcc tatgttcccc tttctttggt ttgaagctca 240

[illegible]

<400> 22603

<400> 22604

<210>	22605
<211>	361
<212>	DNA

<213> Glycine max

<400> 22605

tttcatgcaa gcttggacac tttcaatatg attgtcctac gtgggaaaag aaaccaaatt 60
atgctgagat ggaggataaa gaggaacaag aggatgagct cttgttaata accttcatag 120
attgcataga agggaagaag gatgagtggg ttctagactc gggatgcggc aaccacatga 180
gtagtaacaa ggagtgggtc tcagaattgg atgagaactt tcggcacaat gtaaggctgg 240
gtaatgatac tcacatagct gtgaagggga aaggtagtgt ttggatgggt gtgaatgaga 300
ttatacatgt aatcacacat gtatattatg ttcttgaact caagaataat ttattgagta 360
t 361

<210> 22606

<211> 472

<212> DNA

<213> Glycine max

<400> 22606

gggccgactg ttgttgaaac ctgctttcg tgacctatga aactcagctt gaggagtga 60
tgcataggaa caatttactt ttaagtgggt cctaattgga ttcctaattt tcaacttacc 120
tatttgatg tgacatcatg gcatataggt cccaactttc catcgtggat tcagtcacaa 180
aacaaacttc aatatgttgg actgtctaac acggggattt tagattctat tcccacttgg 240
ttctgggaac cacactctca ggttttgtat ttaaacctct ctcataatca tatccatggt 300
gagcttgtga ctacattaca aaatccaata tctatccaaa ctgttgatct aagcaciaat 360
cacttatgtg gtaaattacc ctatctttca aatgatgtgt atgacttaaa ccttttcacc 420
aattcattct ctgaatccat gcaagatttt ttatgtaaca atctggacaa gc 472

<210> 22607

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22607

agcttgtagg gttaaagtct cactattgtc acgtgctcat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgctg tgctttttct 120

tccatgctat atgtagcaaa gtcattgatc ctatcaagtt tgatgagctg gaaaatgagg 180
 ctgcaattat actgtgccag ttggagatgt attttcccc tgttttcttt gacatcatga 240
 ttcacttgat tgtgcatctg gtcaaagaaa tcaaatattg tggtcctgtt tatctacggt 300
 ggatgtaccc ggttgagcaa tacatgaaga tcttanaagg gtatacaaag aatttatatc 360
 gtccagaagc atcta 375

<210> 22608
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22608

tgatattaaa tntaagtaaa ttacttgcaa ttcaaaatgt taaattaaat ttaattgcta 60
 ttatgtatca cgcagtttat atgtaattta ctttttactt aatgattgca aaataatgca 120
 agttatattt aatttaaatgt ttagttaata ttttgtaaga gttttgttta gctgatatat 180
 acatggaact agattgcatt aaagttagat tttttaacag aaaagggttat ttaagtattt 240
 tgattttaga ataaaataaa aggaaatgta attggccctt gtgcttattt aatgtcaaaa 300
 ttcctaatat tttttagagg catttgggga agctttcctt gaacacaagg actgttctag 360
 ggactcaaaa gtgaccaagt ttttggttg gttgtggctg gaggcttctt tgttctgttc 420
 tttgtgagac 430

<210> 22609
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22609

ggcatgggat tgtacgtagc tatgacgtga cctatagtat gctcaagctc actntaagac 60
 tataatattga tttcttttagt ttgcattcta tgtgttcctt tccctcaact gagaacctca 120
 ttggttggtc catataaaca ttctcctcta aatctccatt tagaaaggca gttttcacat 180
 ccatctgatg tagctccaag tcataatggg ctactaatgc catgataatt ctgaaagaat 240
 cctttcgtga gaccggtgaa aatgtctctt tataatcagt tccatatttc taagtaaate 300

ccttagcaac aagtctagcc ttgtagcgtt caagggtgcc atgagagtca cgtttagtct 360
 tgaagacca cttacaacca actctcttac aacccttgg taattctaca aggtcccaaa 420
 ctccattatg ttccatggaa tttatctctt ctttcatgac atttaaccac ttctcagaat 480
 tatcgcan 488

<210> 22610
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 22610

agcttaaaca ttttatttcg agcgtctcgt tatattacgg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtatg aattggctta aagcttaaac attcaatttc gagcgtctcg 120
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
 agaggttcaa aattcaattt cgaacgtctc gatattattac gggactcaat cagacatccg 240
 agtaaaaagt tattgtcttt tgagttggct cagaggttca acattcaatt tcgagcgtcc 300
 cgatatatta cgtgactgaa tcggacatcc gagtaaaaag ttattgtcgt tcgaattggg 360
 tctgaggttc aacattcaat ttcgagcgtc tcgatatatt acg 403

<210> 22611
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22611

tacgacaata actntttact cggatgtctg attgagttcc gnnaaanatc gagacgctca 60
 aagttgaatg tttaatcttt aagccaattc atacgacaat aactttttac tcggatgtct 120
 gattgagtc cgtaatatata cgaaacgctc gaaattgaat gtttaagctt tgagccaatt 180
 ctaacgataa taacttttta ctccgatgtc cgattgagtc tcgtaatatata tcgacacgct 240
 cgaaattgaa tgttgaagct ctaagcctat tcaaacaaca ataacgtttt actccgatgt 300
 ccgattcagt gacgtaatat atcgagacgc tcgaaattga atgttgaacc tctgagccaa 360
 ctcaaacgaa caataacttn tactccgatg tctgattgag tcccgtatta tacc 414

<210> 22612
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 22612

agcttcttca catttccgcc ttgcttgac cttctttatg cttaaaaaca gaaacattat 60
 gcataggcaa aagatcaaga ggagtttagtg ggttaaaacc ataaacaact tcaaaaggag 120
 aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg ggtaaacaag 180
 cttcccaagt ttttaagttc ttctcaaaa ctgtcctaag caaagttccc aaagtcctat 240
 taacaacttc cgtttgccca tcggtttgtg ggtgacaagt ggttgaaaat aacaatttag 300
 tgcccaactt gctccacaaa gtcctccaaa aatggcttaa gaacttagag tccctatcac 360
 taacaatgct ccttggcaaa ccatggagtc tcacaatctc ctt 403

<210> 22613
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22613

cacatgagtt tgacaaacct ttaccatat agtttttact ctctggtaat cgattaccag 60
 attattgtaa tcgattacca gtagcaaaat tgttttgaaa aagttttcaa attgaattta 120
 caacgttcca attattttca aaaagctgta atcgattaca atgtttgggt aatcgattac 180
 cagtgccttt gaactttgaa attcaaattc aaatgtgaag agtcacattc tttcacacaa 240
 aagctttgtg taatcgatta cactaatttg gtaatcgatt accagtgact gtttctgata 300
 aatcaaaaga tgtaactctt cacaagggtt ttgactttnt caaattgngt ttaagttggt 360
 ctaaaagtta taactcttct aaatggtctt cttgactaga catgaagagt ctataaaagc 420
 aag 423

<210> 22614
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 22614

tctttcaagc ttattgcaac ttattcatat acgcaactga acgatagctg acgagaaaac 60
gtatatgctc ggacttaatg cgggctgcag caccggctcc gcttccctaa ctgtactaca 120
ggcgggtgcc gaggtctat cctctatggt tctatggagt ttcaacatga cctgtgagat 180
agaagacaca tgagacatta atgaccttct tatcgacagt gttgtttagt tcctgtaggg 240
ccttattctg catcatttga acataaaatt aaatccacta attgtatagt tagaggatcg 300
tccacaaaac actgatgggt tgatataaat tataaattag ttcttcaata tatttaatga 360
ttactaatat tgaaattaca tatgtataat acatctgacc t 401

<210> 22615
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22615

tctatcaagt ggtaatcaga gcacaagagc ttcaagtatg tgctccttaa acctccatta 60
attnttttgc ttaccttct cttccattgg tgtttcttca ttttttctcc atgtatctcc 120
tcacatgtct tgtgctaaat gttgttaaca tgattcttta gagtttccac cgattaaact 180
tgctacagaa gctagatttg attttctatg gttcanattt cttgttcttg ttcttgaacc 240
gtgaattgtg ttgagtttaa gttcctttga gttttgtctt gttatttttg tggctgagac 300
ctaaacaata naattcttac aaaaatatta tagtagaaga aaacctcana aatctagagt 360
gactttgttc acctattgta gtttgcata gaagtcatgt ctagtcatga aacttatc 418

<210> 22616
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22616

agcttagtta gtagggggcc tgatgacctt gctaagagca atgggcactc tgtagaactg 60
accgcattca cctgtccctt tggcactttt gtctatagga ggatgccctt tggcctatgc 120
aacgcccctg gtaccttcca gcggtgatg cttagcattt tcagtgattn tttagagagt 180
tgcatagagg tttttatgga tgattttact atttatggat cctcttttga tgcattgttg 240

gatagtctag atagagttct caatagatgc attgaaacta accttggtgct aaatdddgaa 300
 aaatgtcact ttatggtaaa acaaggtata gtcttagggc atatcatttc tagt 354

<210> 22617
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22617

tcctcggggc cattcctgcg aaggcaaaca tttggaatgt taattntacc agtgggacac 60
 tatecttaaa gcaagaatgg catataacct cctcccataa atacaaacat caatgtaaatt 120
 ttagagcaag cttatgcgca tatttcctta cgaacgttct cttgcacaag acattctatt 180
 aactaagaaa aatgcaccca tacacaatca aggcagcttc gttacctaga ttattttacac 240
 gtattttcaa ggtgtatttg ttacttacat cacacacatc tccttgggcta aattttacata 300
 catgcatact caaagcattt tggggtagca aaaattgcac atgcgcacat cttgggtattt 360
 ctaacaccta tacatacaca aacttcatga tgaatcttga ctatcttcac aaaaagggtgc 420
 tacact 426

<210> 22618
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22618

tctggtggga catcttgact tgctgtccaa tctgacattc tcctcttatt ctgccttctt 60
 ctattttcag attgngaattg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcatcttct ttggagaata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240
 tgctgccctt cattagaact tcactcttct catttgtcac taagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacagct gactgatgct gattcaagtt gtagtcagtc 360
 ccttcaccag cagtactttg tccagactat gaagtccatc atggact 407

<210> 22619
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 22619

agtcttttta catctttggg ttgttctaag cacgagaagg tgacgggaag aaaaggggaa 60
 aacactacgc atttcctagg tttttctatt tgatcacttt aaggtaaagt tttatgaccc 120
 attatgtag atgagtatgt tataacattg attagtcatt ggctgtgaga aaaagagttg 180
 gaaactaagt attagagatt attatgattt tctcaaaacc ctaggcttgc taaaattggg 240
 gattttgtct aatcccttgt tccattattt aaatgcttag gttctgtgga aaatacagtg 300
 gttgaccttc ctaacatcgg tagaagtcaa tgattggcgt tattaggtga gtagctaata 360
 tacttagcga ttttcttata gttcaattat ggaga 395

<210> 22620
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22620

gaattacaca atanaacatg ccttggtcgt ttaaatttat ttccctccct tgctacaatt 60
 atatttcact taattggaca aaacttatgt acaattttat tatgggtaat ggtattatta 120
 ctctatgtca tattgctcgg tttttttttt tttaaatata cctttttttt ctaatttatt 180
 gtaatttaat ttccaatata cttgagactt tttctctcct ttttgttttt tttactttaa 240
 aatattatca aatataaata ttatattata taattttttt taattggntt aaaattactt 300
 atttatcaaa ttaaattata taattatgtn ntttaatttt tttactaaga tggactaata 360
 ataaaataaa caagataacc anatataatt gtttacgttt gtattgataa tcaatata 418

<210> 22621
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22621

agtctctctc ttttcttcgg ttgccgagg cggtccttcc gtggacaaaa ctattgggtg 60

tgtcgcatg ttgggttgag gcaacgtgct ggggtgccggc ccttcgggga tcgggggata 120
 gaactcgaca tcccttcgag catagtcttg agggctcttg tgggcctcgt cgggctgttg 180
 agaaggttct ctttcaagga cgggagaagc aatatggacc gcatcgtctt gcaagacggg 240
 tggtagtag ttaggcggca atccataagg gtaagccgct cggttgatc ccaggtagg 300
 gctgccatcg tgcctagtg tgtcatttcc ctgtcctact atgttngagg gaggatggtg 360
 cgcagttgcc aagagagttg ggtct 385

<210> 22622
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22622

tagcgcacag gcgcgcttag cctaactact aaagcttatt aactgtgaga gagttgagca 60
 tagcgcagca gggcacttag ctcaacacat gacaaaggct tagcgcacag acacgcttag 120
 ccttattcaa aggaaaactt acaaaagcat agtggcgctt agcctgatag gccaggcttt 180
 gcgctgaaca aaaattctca aaatcttaat gtctgaacac tagttctgct tagcgcacag 240
 acactcttag cgggctcatc acttacgttc atcagtatgg atgaacgcgc gtancgtgac 300
 atgatccgct tagcgcgttc atctggaaat gtaatattct aacaattgct atgaacaggc 360
 taagcgcagc acgtgcgctt atcacgttca ttgcgatt 398

<210> 22623
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 22623

agcttccaac cctacccta cccctctctt aactcattcc caattatgga tgtaacaaa 60
 tccgcattga aagtatgacc aatgatattt tataacatgt ttggggtggt tgcataattt 120
 tagtttttga ttttcaaatg taatttttga aataaaatgt gcttgacaac aatgattgaa 180
 ataatttata actcattcaa agataaaaaa gatttataaa tttgggtttt agtttttagaa 240
 aaacacattt ttcttatatt tgacaatgac cattttcgct accaccacca gcacgggttg 300

tctgtcacca ccaccattgg aactacttag tggcaaagca cggcccaatt agttaaagg 360
gccaaaatag ttaagcaacc a 381

<210> 22624
<211> 413
<212> DNA
<213> Glycine max

<400> 22624

tgccttgtcc cttgatatat ttgatggact catggtttct atgaatgaca aattccttgg 60
gataaaggta gtgttgccat gttttcaaag cccacactaa ggcaaacaac tctttatcat 120
aagttgaata gttaagggtta ggaccactta acttttctact aaaataagca attggatggc 180
cttcttgcaa caacacaacc ccaatcccaa cgtttgaagc atcacactca atttcaaaag 240
atttttgaaa gtttggaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctcccat tgaaccaac atttttcttg agcacttcat 360
ttagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa ctt 413

<210> 22625
<211> 377
<212> DNA
<213> Glycine max

<400> 22625

agcttgctag agaagccatg gctttctgta tgatgagttg ctactaatgc tttggctttg 60
atatgttgct tgaatctcat cttcattgcc acatggccaa cttcatttat ttgtgtagaa 120
tttgcaattc attcatgtca tgccatgtgg tttcaagatg aataagccta tccacttagt 180
tgcattctctt tgaaagataa catactacgt gtgctgattg agcggcaagg tatgagaaga 240
tgcattatctt ttatacagag gattagctta tacaacttac gtaaattgat ttacatgtta 300
atttgatata ctgtcagtta cagatatgta tactattaat taattaatct aacttttgaa 360
ggactaatca taaaaat 377

<210> 22626
<211> 402
<212> DNA
<213> Glycine max

<400> 22626

ctcagcttac catcgatggg acaatggtac cctttgactc tcaacagacc cagaattctg 60
acaagctgcc ttctcaagct gtccaaaatc ccaaaaatgt cagtgccatt tcattgaggt 120
cgggaaaaca gtgtcaagga cctcaacccg tagcaccttc ctcatctgca aatgaacctg 180
ccaaacttca ctctactcca gaaaaagggtg atgacaaaaa tttacctaac aattttctgtg 240
caggtgaatc ttcttccaca ggtaattctg atttgcagaa gcagcacatt cccctcttc 300
cattccctcc aagagcagtt tccaacaaaa aaatggaaga ggagagaaa gagatcttgg 360
atacattcgg aaaagtagag gtaaacatac ctctgctgga tg 402

<210> 22627

<211> 360

<212> DNA

<213> Glycine max

<400> 22627

tcttgcttca tgcaatcttt aacaacggtg gcacgcctcc ttcgatgatg agtttcccg 60
aacggtcggt gtcgagca agggagacga ggaagcggc tgcgtctgaa cgttcgcca 120
aggaagcacc ggagagaaga atggcgacct gttcccagat gatgcagaga atgggctcgt 180
tggcggcgat gggagggagg cccaggtact cgtcgtagcg ctgcgtagcg gaggcacgtg 240
ggacgctcgt agaggtcggt gctgttctg gcggcctggc ggatgaggcc cgccaacttc 300
ttcagtttgg atttcagctc cagacattcc tgcggaaat tctggctctc ttccgcaagc 360

<210> 22628

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22628

ntgatgcctt gcttggactc ttgtttgccg ttaagtgg tcgaagattt ctgaagttt 60
ttattttgac cgacgtattt tcgacatatt tcgctatatt tcatgttttc aaaattttt 120
tcttttttctc ttttttcttc cttctttaat gttgatgtat tgtattctcc aaactaaaag 180
tgttttcaac acattctagc ttatgggggt attagacaaa attaatttag ttagttacta 240
gaagttattt tctataataa tttttttcta atgtttaaaa ttggcaacta ataacatgtt 300

tatggtgatt tatttgaaa agtgggaagtc ccacgtatat tgngtgcatc acataggtat 360
gcattgttaa ttangataag ggattatgaa tgcaaaggaa 400

<210> 22629
<211> 376
<212> DNA
<213> Glycine max

<400> 22629

agcttggttaa attaaatttt acaataataa ttacctaaaa gtcataagta gtatttatta 60
caatttttag tagttttttt tgtgaataca attttttagta gttgaaagtg taaatatttt 120
ttatattggt tgcataataa aattaaacta taaaatgaat aatataaagg aaattataga 180
tagtagtata atacgtattg ccttaataaa ttagcacgct gggcgtgtat acatattaca 240
tagagtggag aggaatcagg aaaccgacgt ttgtggaaat tatataaaaag gtatgcaata 300
gggttgggtt agataaaaac ccaaaacaca acacggcagt gaagttatta gaatctgtgt 360
tgtgttgtgt tgtgtt 376

<210> 22630
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22630

tccaaatctt anacagttgt ctgaacctcc tcatacttac caggtgatgt ctaatttgta 60
ttcctcgtat ctttctttgt ttgcatcatt gagctctgat ggcttgctta tttgaaacca 120
attttcgatt ttgtttttca tatatgattt gcttttgtac tagtttgaaa caagtctcac 180
tgtttttctt ctgtttttca ttgctttttc ttctgcctcc tcttgctgtc tgcttttttt 240
tgttttttta gttaatgagc ttatccagaa atgttctact tctccccatt ggtgtctgat 300
ctgatagtgt gtctcatctt ttatgttacc ttaacctta tgatgaaata ttactatgct 360
aaatttcttc ccattttaat cttatgccta aaattggaaa cttcagtttc ggcttttaaaa 420
agtt 424

<210> 22631

<211> 374
<212> DNA
<213> Glycine max

<400> 22631

agcttggttat gtatgcctac atgcagcgaa tccaaattaa attcttatct agctagttaa 60
gcgagtgacc atccatctat taataagatt taatcatttt caaattgaac tgtacgtcca 120
actgaacaat cctctatgtc ttttaagttc ggtgtttctg gaattgtatt gcttgtcttt 180
cacgtttgca cgcacttgga gaaattgcga attgtttacc tgagaatcat atcatatatg 240
acagattgaa taatagattt tgtgtcaagc acaacctttc agtctaacat caatagacat 300
caagtatggt acgagtttgt gtaagtatgc aattcgccga ttctaacatt atttttacaa 360
gacttattgt aaag 374

<210> 22632
<211> 422
<212> DNA
<213> Glycine max

<400> 22632

agacaattac aaatggccag ttagtggaac acatatttta ctgtgattat attccacaaa 60
ctggtgttag gaatgaaaca aacttgcaaa atgtatttct gaaggccttg ccaaatttgg 120
tgcacatatg gaaggaggac agcagtgaac tacttaaata taataatctg aaaagcataa 180
gcattaatga gagtccaaat ttaaaacatc tctttccact ttctgttgcc actgacttac 240
aaaaactaga aatccttgat gtatacaatt gcatggcaat gaaggagatt gttgcttggg 300
gcaatggttc aaatgaaaat gctatcacgt ttaagtttcc tcagctaaac actgtatcat 360
tacaaaattc agttgaactt gtgagtttct acagaggaac tcacgctcta gagtggccat 420
cg 422

<210> 22633
<211> 374
<212> DNA
<213> Glycine max

<400> 22633

agctttgtat gctctattca atggagttga caagaatatc ttcagactga tcaacgcatg 60

cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180
 agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg atgacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
 tgaactcatt gggt 374

<210> 22634
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 22634

tgtagccatt agaagagaat gagcatgtga ttggaagtat gactaataat gttagtcagt 60
 ttgtcagatt gattgtgaag gaatgcattg actgtatccc ggtgagagtg tgaacttta 120
 attttgagag aaacgattat catttagtac tgatttttgc atgaatctct gaagtatgga 180
 ctggatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagc cacttagcca 240
 aaaagcttac cacgtgcttg aatgatttat cccttgccacc cagtttgagc tgaatgaatt 300
 attgattgat tgaaccttga gcctatacag tgttatctct tgctaccttg acttaggctg 360
 taggagagca tcatccacag gaagcatggt gcaaggtaaa tttgttccaa atttatggga 420
 ggcaactg 427

<210> 22635
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22635

agcttatcaa acttagaaat caagtgatca tgtattccga aaaatagggg gagtaaacga 60
 atgcacatatt tatctatata caattgtttg ttgcttgctt gaatcttgat ttcaggtatt 120
 gtattgtcat catcaaaaag ggggagattg tagatgcaat tggctttgat gttttgatga 180
 tgatcatgat gatgtgttgc aattgatgca aatgggcttt tcaagattaa aattcaagac 240
 aatacttcaa gattacaagt cacaacatca agatgatcac tagaatatta ggaagggaat 300

tcctaattga attagcaaag gtttggccaa gtgatttaaa ataaaaagtg tttttcaaag 360
gtntactct ctggtaatc 379

<210> 22636
<211> 430
<212> DNA
<213> Glycine max

<400> 22636
tgaagggact cccacatttc ctggtcctaa tatcccttct aacaaaatct ttcttcctac 60
acctatactc accactcctt tcacaaccaa ttaacacaaa tgaaatcctt cctctactac 120
cagtgtttgt gtcagacctc ataatgactg tcataaatcc gttttcatga gcaacggatc 180
aagcccaactg caaaacatca tttcgggtac caaacaccta taacgcaacc cacaccattt 240
tagtcttcta agggacattg attttatgaa aataataaca aaaatcaaca ttattaccta 300
agaagtattg aatgcattcg aacaatcaac atgctgctca ttcacaccac attcctgttc 360
attttgatca tccatatcaa cttcttcaaa cattatactg tcatacatcc attgatctcc 420
atccatctta 430

<210> 22637
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22637

agcttcacac aggctaattg ttcactctaa ttccaaatca catatatgtc ataaatggat 60
tttgcaagtc atttcccatc aaataaagga taatgtgcat aatcatcatg gatcaatagg 120
attttttaag atcggacttg taggaaattt tggatttggt tgctttgggtc tttttttttg 180
tgtgtgtgtg agtaggagag taggcacaaa gatttggtta gtaacttaaa cggtcgatca 240
cttcctatcc cttcacgtct tgaccaagtt actatcgttt cccttccttt ttactcttta 300
ccacaactct gtacatgggt tagacattgt ttgttccaaa gaactcattt ttctttacca 360
ttccctattg ntcttctcca tt 382

<210> 22638

<211> 441
 <212> DNA
 <213> Glycine max

<400> 22638

tagaacccta gcttatgcta caaacattta taatacacc cctcagtagc ttaaccaaca 60
 atagcagaat aattatgata tttcaagcaa cagatacaat ccagggttga ggaatcatcc 120
 aaatctgaga taggcaagtc ctccacaaca acaatagcat gtccctcctt tccagaatgt 180
 tgttgggtcca agcaagccat atgttcctcc tctaatacag cagcaacaac aacaattgtc 240
 acaacaaaga caatcggcaa ctgaggctcc tcctcaacct tccttataag agatagtgag 300
 acaaatgacc atccagaata tgcaatttca gcaagagaca agagcctcca ttcaaagtct 360
 aacaaatcat atggggcaga tggctactca gttgaaccaa actcaatccc aaaattatga 420
 caaattgcct tcacaaactg t 441

<210> 22639
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 22639

ttgcttgatg gaaacctaca cgcttaggtt ccoctgagac actaactggc tataatacaa 60
 aaatctgcac atgtctctag acacacaggt ttatgtcctt gtgacgacca acacacagac 120
 tgttgccctc ctgtgcaaca ttatgtatca attgaacaga ctgaagctga tgctgcaaac 180
 atctacaata cacctgcgtc atctaagaat cgcacgctgg ccagcatac caattacgac 240
 ctgtggagca gcatgcacaa tcctacgtgg aggaatcata cctaccttgt atgcacgaag 300
 gcttggctac agaaaaaccc ataacaccac cctccttatt agcataatga atctggccca 360
 gcagccatac gt 372

<210> 22640
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 22640

tgggggagac atcgagtgag aactgaaggc gggcttggtt gaaacctact ccgactattg 60

ctgtgtatac acagactagc tctggatcta tgtggaaaca agaactgccg atatggatca 120
 gtctaataat ggtgtttggt gtaactccat gaatgaaagc tgagtgccta aatcaatgca 180
 agcatggggt atgaatgaat gaacagccat gctccctatg gatgaaggct cttctagaac 240
 ctaaactttt ttgcattcct ttatccttat gaggaacaca atggaggctc cattgctc 298

<210> 22641
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 22641

tagctttgag ggtgcgagc ccaccatctt ttcatagtag agtaccgata atgtgtctac 60
 catcacgatt atcgtctccc tttttgcaca tggtctgtag ttgcatccta tctggaacca 120
 tatcagaata gtactgatac tgcctaacga aggcaaccat taggtccttc caagtatgga 180
 ctcgggaagg ttccaagtta gtgtaccagg taacaactac cccagtaaga ctttcttgga 240
 agaaatgtat tagcagttcc tcacttttgc gtatgccctt atcttccgac aatacatctt 300
 tggatgggtc ttggggcaag tagtccccctt gtacttgtca aagtccagca ccttgaactt 360
 gggaggggtg atgat 375

<210> 22642
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 22642

tgtagaatgg ctagacatga tacatgttac ggtttgtttt ggttcacaga tttaggggat 60
 gccccacatt atttccatga cacaaatgca aagatgatga tttggaaact tcatgcaaaa 120
 ctggatcatgc atgcacctat gtggacactc aagtgtcaaa cttttatggt catgtgatgc 180
 tagggctcag gatttaaate aaccaatgt ttccaaaata tggtctttta tccatttgtg 240
 cattcatccg agtccatttc cggcgtccgg ggaaatttca cagtgttcac ctttcagggtg 300
 tagacacatt ttttttcaaa aactagtatt gatcaatgaa cttttttcaa agataagttg 360
 gaagtcatct cttttcaaaa gcatgtcggc ttttcagcta aacaacttat tattatttt 419

<210> 22643

<211> 375
 <212> DNA
 <213> Glycine max

<400> 22643

ttgcttacat aatactgata catgacatgt ttattgcacg ctgccctaca agtttattat 60
 tggaacaggg tataaaactt ggggaaattc catgctaata aaagggtgtgt ataaatcata 120
 ttaataactc acaattcacc ctctactgga cattagagct tcccaatgga tggtcaccaa 180
 cctgatatta atatcttga ctcataagat caggatcaca ctaagctata ttgacagcta 240
 gctttcagat tatatatcat gtgaaagtag atatagctca cgcattatag ccggttatac 300
 catctaatta ttagatcttc catatagact atgctcaagt tcgagcattc cctattccgt 360
 tctggacctt ggata 375

<210> 22644
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 22644

tgctgatggc agggattcaa tctctttcat aaaccattat ctaactaata caccttgtaa 60
 acagatatat acaagtcagc aacactgacg aagagaatgt attgtaatca ctggttatta 120
 ttgttataat gtgaacactg ctttccatgt ccatgtcaat gccataaga acaccaggat 180
 catattttacg tagtaattgc ctttaatcca cattatgtgt gacagtgatt ggcatacaat 240
 gaaatatgtc agagagatac cttaaccaat gtaaattgac tactcccctg gcacacagga 300
 aaataatctt gacagcaatt cttgctgcct ccatcctgtg aatatttatt ggccatatat 360
 acaccgctta gatctcaact ttcggcactc tgacca 396

<210> 22645
 <211> 187
 <212> DNA
 <213> Glycine max

<400> 22645

atctatatag gttcgggtgt tgctagccag catcttgttt gcaggactag cctagtcggt 60
 atcaaaatgg ccgtgattga aaacgcaatg gacactgctg atgtgatgat ggtcatgatg 120

atctggagaa atcgttgacag gctggacttg tccatagctg atgaaggact atgcttcatg 180
actctgg 187

<210> 22646
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22646

nttgacacct agttgttccc gctagccatt ctgagacact atcgagtact ggacctcgac 60
cagtactgat ccgtatgggc tttatgacga attctgggtg ttctcacgct gcaggcgacg 120
acgggtccatt acgcgccac catgacactg aaagtaactc tctggcgata gctaccatgg 180
aaagtgtaca gacgctcgga atgacttgcc ctaatattct gagagctgta tcagaaagag 240
ctgaccacag tgattaccac gactatatgg tgctgacag atgtatatac ggcggcgaga 300
gaataaactg tcgaaggaca ttgggcttat gaatgtacga gctataaaca gcattgtgac 360
ctatgaagca cgaatagatt gcaacaactg acatgctgcc tatatccaac acatgcccgg 420
cttgtccgat cattcatata acctatttgc aacactatac tgtcgtacat acatcgatc 480
tcatgcctct aa 492

<210> 22647
<211> 379
<212> DNA
<213> Glycine max
<400> 22647

agcttttecta caagtectaa ttgacattct aaactagaat caactcactt tagactccaa 60
tttccactaa ccccaaattt ggcttttcca accctcaaaa tctcacactt ttccactcac 120
aacattacca ttctcacatt taaccctagg ttaactctcc ccatcatctc tacatgtttt 180
ctatcaacat tttcaacata catatatcac aaagcatcat cataaaaccc taaatcagca 240
tgggtaattt agctcacatc aaacatgtca agtttagcat gatttcaaca aattttcttca 300
caaataacta ccctaagaca ataacctagt agaagtaccc atcatagctc ccaaaaaccc 360
aacacccacg aatttcaag 379

<210> 22648
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 22648

tctacttatg tggcagggcg ggctttcttc actttcttgt ctccaacgcg agctttgacc 60
 actgttcttt cttcccgca tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
 accatacttc ccacggtttc cttgagtatt tatcaggcta gttatgccgc cgttgtctct 180
 gcctaaacct atcccgggtt cataaccgtt cccaacata actcggggcca tcattaccgc 240
 tgcacgagac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300
 aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatgt cttcctcgcc tgacacgatg accaagtgcc c 411

<210> 22649
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 22649

ttggacattg gtaaaccctt catctgagct ccttatttga ataaaatctc ccataataca 60
 ctacagcccc ccattcatta atgggtcaac ttttttactg gatcccacaa aattctttta 120
 ttgtgtatgg cacatggaga ataaatagta acaagggatga ccagttgtgc ttcttgacc 180
 cattcccaaa ccagtaaaat aaaatcatta ccagtgtatt ccctctgcag gttaaaagat 240
 ttatcactcc acaaacataa tatacctcct gctgtattga tagctgtgaa cacatttcaa 300
 attacctctg tgtgtgccca tatagactga gacat 335

<210> 22650
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 22650

ttcttgcaag cttgagatga cgaagtgtg aagggtgaaa cttcctgctt ttattgctga 60
 ccacagagtg gtacctgcag atatgtcgcg ggggtcacga caccttggtg acgttctgtg 120

<210> 22651
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22651

ntaatgagat atgcgagaaa tgagagaata gcacatttaa aaatgttaaa atgaatatat 60
 gattatacaa aaaggaaaaa taataattat aaaaaaaatt ggaatattac caattgagga 120
 aacgatgata aaaaaatcga tcaagataat ttgatcatgt atgaagaagg caactaaagg 180
 catcaatcaa aatagtagaa atagtccaaa gagatcttat ggtaaataat attcttaact 240
 ttttttgttt ttaaccttgt caaatgacat catgtaatct ataatgtcaa tcttacctat 300
 taggataaga attttctatt attgttattg gtttcaaatt ttcaaataata tacatgtatg 360
 agaattgaga atcatatata aaatacctaa cataaaatat gcttat 406

<210> 22652
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 22652

agttgtgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg gagcaaaaaa gaaaagaagg aaaatttcca atcaaagagg aagcaaaaaa 120
 aaaaatggag agaaggaaaa tttccaatca aaggaaagga aattccctat caaagaatgg 180
 gagaaagaaa aaaagagaag taaaaaagaa gagagctcaa ggatcgaaag aaaacagaag 240
 aatgtgcag gaaggtcgtt ggaccacaca atatctgaac aatacagaat tgtcaccaaa 300
 tgaacaaaag aaagaaaagg aaaccacgac ctaaaatggt cttccccctt taattgccaa 360
 ccaaaatctt gtgcgct 377

<210> 22653
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 22653

tgcttctgta cagactgtga tcaacacttg tgcccgtttt atccttcgac agctttaagt 60

gagtaggtgc acgtgttctt ctatgactgg caatttccat tccgaactta ttacgatgg 120
 tctttgcatt cttgctttgg gagaagaaca tgaaagcttt ccttttgttt tgcttgggag 180
 ccgaaaaaat aagtctcttt tccaacgaga ctcatattgaa attcatattg catctgtggt 240
 acaaaatgtc aaaccatttc ttctgacatc cctccaaaca ca 282

<210> 22654
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 22654

tgtctttctt tcttttgggtg aagcgcgatga tataaagact aaacaaatta ttatactata 60
 ttctgttcaaa gcttgtattc tacatggcgg catgctcggt tacatgggag gaattttaat 120
 ttttcaacct gatctatact tataaatctg cgataatctc ttccaaaata 180
 caacatgttc cttattaatt tatatgaaag tt ccttgaaat 240
 actttttatt tatatttatt ctaactcgtc t taaagtc 300
 ctt agacgatat ttggacccaa ata tca 360

2
 36
 <212> DNA
 <213> Glyci

22655

ctca agcgtgtat tgaacgagc aactacaaac ttatattaga 60
 aagatcaccg gggcgtgtg aaccaggtt tggagcttt tatata tt taaagcc 120
 tagt... 30
 ...ccca ...ccaca ... 10
 actatcaaaa gtgcaaagtc aagacctca aaacaggatt caccaaagtc 10
 gcaaagtcca catcaaaaacc aacttctcaa tcacaacctg ttaca 360
 actacaaagt ccaccaactt 380

<210> 22656
 <211> 422
 <212> DNA

<213> Glycine max

<400> 22656

taattccatc acttaatttc ctataatgtt caatcattag caacactatc tttaaacatc 60
tgaaccttta ccgtaaatac cgcatacata ccaatgttgt caaaaacgcc agttaactcg 120
gtgagtcgta cgagttacaa gtttctgagc ctttgtcgag cttaatcgga ccaaagaatg 180
gagaaagttg gagaatggca atgaaatgtg agtttactct acagaacgaa agaacattaa 240
ccgttttttg caactgctat ttacacttct ctttaatgct aatgcactcc cctcctcacc 300
tttttgtccc caatctaccc cacgtgtaac gcttatgaaa aagaatgata gtgtattgga 360
gtattagaat aaagggggag tgttgtatca tctacttact tttaagtagc atatgtcttg 420
aa 422

<210> 22657

<211> 362

<212> DNA

<213> Glycine max

<400> 22657

agcttttgtg gagcttcaat ggagaatgag ggagaagaaa ggcaacgtga gggagagggga 60
gagagaaggc ttctgcaatg ttttctgctg agtgaagaga gagagagttg ctttttggtt 120
tttaaaaggc ttttctctct tttcttatta ttttattcaa gctctgccac atgtccctat 180
ttgattggag caaaaaggc ccactttctc tttttgactg tgaccatac tcagtcacaa 240
aagtgagaaa aatctgacct ttgaaacgct aaaatcctgc ctcggtttgc gtgccgtttc 300
tctggttcca gtttctctg tttctctgcg tccgtcggcg ccagttttcg aaagcaagca 360
at 362

<210> 22658

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22658

agaggtgtgt tgaaaccttc tttatatctt tatagttatt tgtgtgataa tgatttttgtt 60
tatatgtgga gactaatata gttttttttt tcttttggtta aggaatgggt tttagcttcc 120

agaattgcag tgcctgacaa cctgggtctt cgaatgcgtg ggaggaccat ggtccggcca 180
gctccaccat ccaacaaaacg agaactatcg tgggtcggcg atgttggttt tgttggtgat 240
gcttggtggc atgatggatg gtgggaaggc attgttggtc aaaaggactc ggaatctaata 300
tgtcatgttt atttcccagg tatgaatgtc tgctctttct atgttaatta gcttatgttg 360
gtaactgttc ttttgggtact tagattatga gctcgnntttt ttatttttga ttaattccta 420
tgg 423

<210> 22659
<211> 383
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 22659

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag gggtcagccc 60
cttaggcact tatctctctt tcgaatttgc ttggaaaaat tgtttctgtg aagaaaatcc 120
aagccgaggc gcttctgaaa cgttttcgta acgtttccgt gaggaatttc gcgaaggttt 180
cgaccgttct tcgacgttct tcattcggtc ttcacgttcc ttcgatcttc aacgggtaaa 240
tacctcgaac caagcttttc gattcattct atgtaccgtt ggtgggtccac attgtgtttc 300
gtgtattttt atttcggtt catttacttt ntatacccc ctttgacgtg ctttaagccat 360
tntatttaag tcatttctcg ctt 383

<210> 22660
<211> 449
<212> DNA
<213> Glycine max
<400> 22660

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ttgctatttg caccgccatt ttactaagt acaccgccatt gccttttttt ttgtgattct 180
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acctcactaa tcacccccctt ttttgatttc cgggtgtgtca cggaacctta cggattgtgc 360
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<210> 22661
<211> 158
<212> DNA
<213> Glycine max

<400> 22661

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gctctacatc ataatatatt tgaactcgtg cagatgta 158

<210> 22662
<211> 229
<212> DNA
<213> Glycine max

<400> 22662

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ttcagctcat accaatgatc taagaatgtg tgaagatcct ttgattggct gtacggggaga 180
gagcaacaat acctcttctg agggccttat ccttcattag ctaaaattt 229

<210> 22663
<211> 372
<212> DNA
<213> Glycine max

<400> 22663

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actttaaata gaaaagataa aaaaaataag aatggtttaa atatattttt catacttcta 180
aaatagatta ttttcattttt attatttttaa tttcattttt taatctaagt attcaacatt 240
tttttatggt tcactgtagt atctattatt agtcccatTT tgtaaagtga caacatgaaa 300

aatagagtgt tgcattatct aacacctaata cactaacacg ttaacaaatt tttcacatca 360
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<210> 22664
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 22664

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 attctatcag agcgataatt ttttgcagga ccacgattgg agatattatc caagtaataa 240
 cttcaaccaa ggggggttcac cctatcagca tcctagtcag ggtccgagtc agcaagagaa 300
 gccgcctatc agtatagagg aaatgctctt aagtttcatc caagagacaa gggcaaacgc 360
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<210> 22665
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 22665

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 taaagagctt atctagcttg agccataacg caaatatagt attcgcttca gaagcttcat 300
 aaagaacttc atcagatagt gacaagagaa tcaacgagta acgattttca tgttgcaact 360
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<210> 22666
 <211> 254
 <212> DNA
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<400> 22666

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tctaggtgga acgagacact acctataatt atggtgctat ccctaattag ctataattta 180
tgatacttgc cgaatttctg gacaggaata agacctcaga gatcaaacg aatatgaagc 240
ggatggacta cctc 254

<210> 22667

<211> 376

<212> DNA

<213> Glycine max

<400> 22667

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tccaacaaaa aggattaatt gtcagcaaac cagttctgat tcggattctg atgagtatac 300
acagtatcag ctatcaacta acaaacatat caaagctgag taattagtgg ttacacaatc 360
ctgtggtatc agcctg 376

<210> 22668

<211> 418

<212> DNA

<213> Glycine max

<400> 22668

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ccagtcaagg tcactttggt ttgtgagaat gtttcaacca tatgagatca acataggttt 180
aaaggagcac tcaaactgag tgtctttaac actaaggcct agactctgaa gaatccgtta 240
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